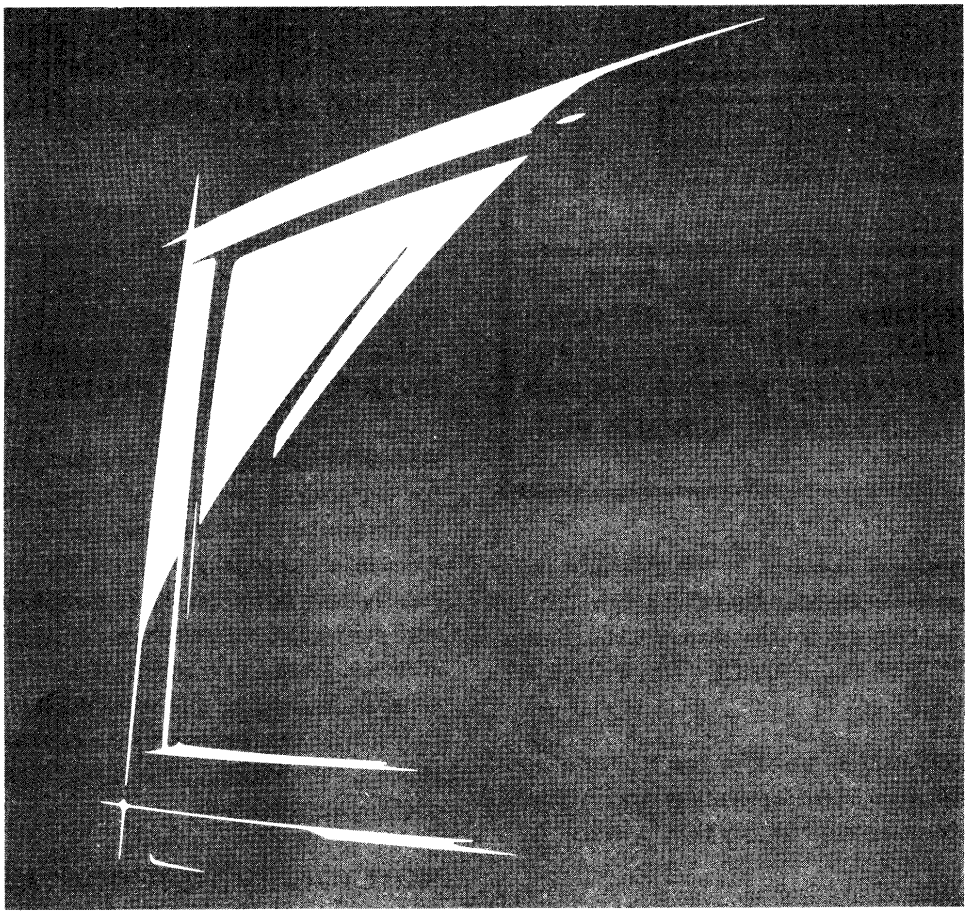
TOSHIBA

# Color Television

## OWNER'S MANUAL

# CN36G97

**ColorStream™**





©TOSHIBA CORPORATION, 1997

Downloaded from www.Manualslib.com manuals search engine

**Dear Customer**

Congratulations! You have purchased one of the finest Color TV's on the market!
This manual will help you use the many exciting and useful features to make your TV viewing more enjoyable than ever before.
Before operating your TV set, please read all these safety and operating instructions completely and then retain for future reference.

**Customer's Record**

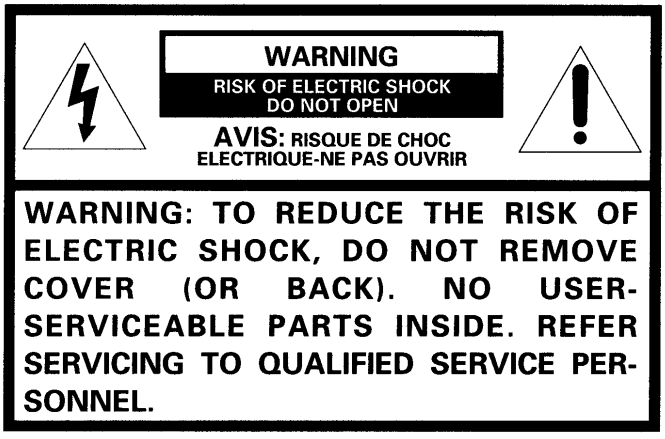
You will find the model number and serial number on the back of your TV set.
Record these numbers in the spaces provided below. Refer to them whenever you call upon your TOSHIBA dealer regarding this product.

Model Number _____

Serial Number _____

# Safety Precautions

**WARNING:**
**TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**


WARNING
RISK OF ELECTRIC SHOCK
DO NOT OPEN
AVIS: RISQUE DE CHOC
ELECTRIQUE-NE PAS OUVRIR
WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning symbol in the triangle tells you that the voltage inside this product may be strong enough to cause an electric shock. DO NOT TRY TO SERVICE THIS PRODUCT YOURSELF.

The exclamation point in the triangle tells you that important operating and maintenance instructions follow this symbol.

This TV set may be used only with TOSHIBA stand model ST3503. Use with other stands may result in instability causing possible injury.

**CAUTIONS:**
TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED PLUG WITH AN EXTENSION CORD RECEPTACLE OR OTHER OUTLET UNLESS THE PRONGS CAN BE FULLY INSERTED INTO THE OUTLET TO PREVENT ANY EXPOSURE OF THE PRONGS ON THE POLARIZED PLUG.

**ATTENTION:**
POUR PRÉVENIR LES CHOCS ÉLECTRIQUES, NE PAS UTILISER CETTE FICHE POLARISÉE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ÊTRE INSÉRÉS À FOND SANS EN LAISSER AUCUNE PARTIE À DÉCOUVERT.

Avoid displaying stationary images on your TV screen for extended periods of time. Stationary patterns generated by PIP display, computer displays, video games, stock market reports, etc. can become permanently engrained on the picture tube. This damage is not protected by your warranty as it is the result of misuse. Should you wish to use your TOSHIBA Television to display still images, it is always advisable to reduce brightness and contrast settings. Never leave a PIP display, computer display or video game display unattended.

**NOTE TO CATV SYSTEM INSTALLER IN THE USA:**
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.



Downloaded from www.Manualslib.com manuals search engine

# Table of Contents


**Set Up**

Installing Your TV Set ..... 4
Antenna/Cable TV General Information ..... 4
Antenna/Cable TV Connection ..... 5
Antenna/Cable TV and VCR Connections ..... 6

**Preparation**

Location of Controls (TV Set) ..... 7
Location of Controls (Remote Control) ..... 8
Before Using the Remote Control ..... 9
Using the Remote with VCR or Cable TV Converter ..... 10
Programming the Remote Control ..... 11
Menu Function (General Instructions) ..... 16
Selecting the Antenna Input ..... 18
Programming Channel Memory ..... 19

**Basic Operation**

Watching TV Programs ..... 21
Convenient Remote Functions ..... 22
Adjusting the Picture ..... 24
Adjusting the Sound ..... 26
Selecting Stereo/SAP Broadcasts ..... 27

**Advanced Operation**

Enhancing the Surround Sound Effect ..... 28
Setting the Off-Timer/Clock ..... 29
Watching Picture-in-Picture ..... 30
Locking Channels ..... 32
Labeling Channels ..... 34
Programming Your Favorite Channels ..... 36
Using Closed-Captioned Function ..... 38
Activating Flesh Tone/ Noise Reduction Functions ..... 40
Changing On-Screen Display Language ..... 41

**Equipment Connections**

Monitor Panel ..... 42
Connecting a VCR ..... 43
Connecting a DVD Player with ColorStream™ . (Color Difference) VIDEO OUTPUT ..... 44
Connecting a Video Camera ..... 45
Dubbing/Editing Video Tapes Using 2 VCR's ..... 46
Connecting an Audio Amplifier ..... 47
Using the TV's Speakers as Center Channel Speakers ..... 48

**Reference Section**

Cleaning and Care ..... 49
Specifications ..... 49
Before Calling Service Personnel ..... 50
Limited United States Warranty ..... 51






Downloaded from www.Manualslib.com manuals search engine

# Installing your TV Set

### Where to install
Place the TV on the floor or on a sturdy platform. The mounting surface should be flat and steady.

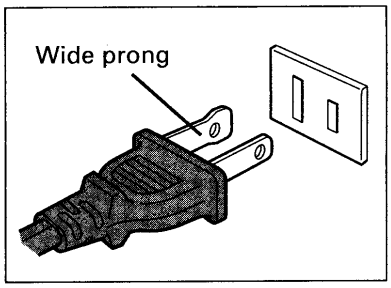
### Lighting
Do not place the TV in a room where direct lighting strikes the screen. Use soft and indirect lighting.

### Air circulation
Place the TV far enough from the walls to allow proper ventilation. This will prevent the TV from overheating and avoid possible damage to the TV. Avoid dusty places too.

### Power supply
Plug into an electrical outlet with standard household power (120 volt AC, 60Hz). Do not change the plug's safety prong. See the right column.

### WARNING :
TO AVOID PERSONAL INJURY
- Do not stand or climb on the TV.
- Do not put a VCR or any heavy object on top of the TV.

### CAUTION :
As a safety feature, the plug has one prong wider than the other. It will fit only one way into a standard electrical outlet. If the plug will not fit into the outlet, try turning it around. If the plug will not fit either way, the outlet is probably old and non-standard.
You will need to have a new outlet installed by an electrician.
DO NOT CHANGE THE SAFETY FEATURE OF THE PLUG.




# Antenna/Cable TV General Information

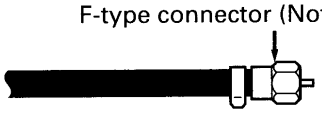
You can use either an indoor or outdoor antenna to receive VHF and/or UHF channels.
Channels 2 - 13 are VHF channels, and channels 14 - 69 are UHF channels.
We recommend using an outdoor antenna for better picture quality.
You can receive Cable TV by connecting the cable supplied by your local cable company.

## Types of antenna cables

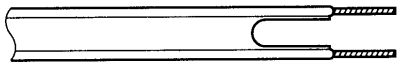
Shown below are two basic types of antenna cables. Signals from a home antenna may be conveyed by either type. Cable TV signals are conveyed by a 75 ohm coaxial cable.

**1** A 75 ohm coaxial cable is generally a round cable with an F-type connector that can easily be attached to a terminal without tools.

F-type connector (Not supplied)



**2** A 300 ohm cable is a flat "twin-lead" cable that can be attached to a terminal using an antenna adapter (Not supplied).



## Antenna connection panel

There are two separate 75 ohm F-type connector terminals and a converter output terminal as shown below.

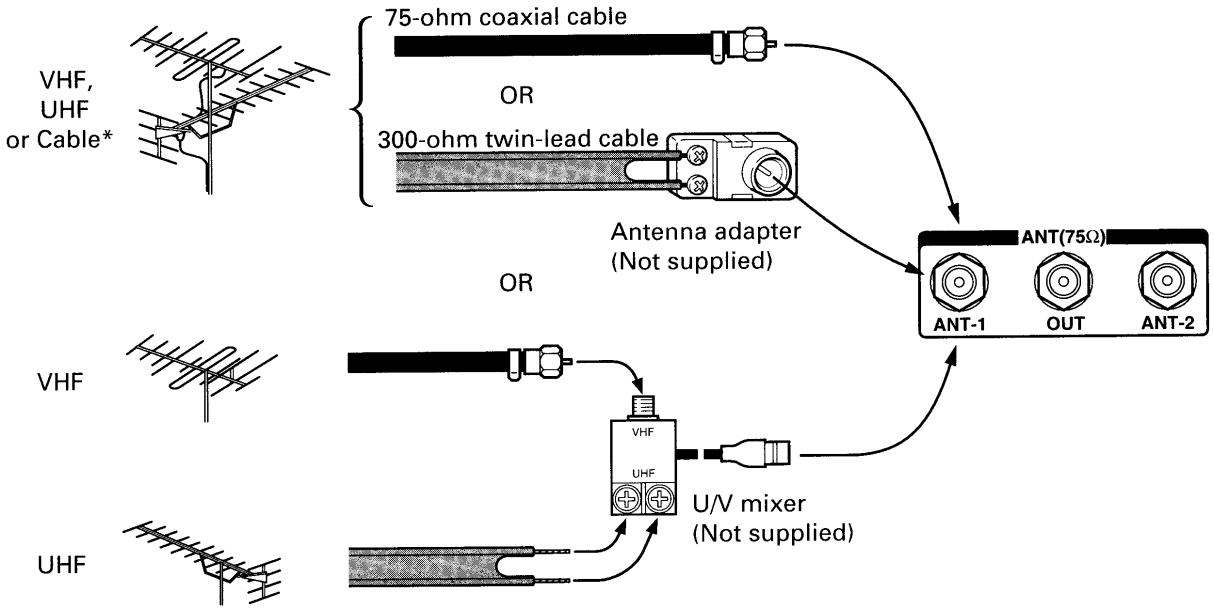
The ANT-1 and ANT-2 terminals are for connecting a VHF/UHF antenna or a cable TV system. The signal input through the ANT-1 terminal is output from the OUT terminal whenever the antenna input is set to the "ANT 2" mode. You can switch between the "ANT 1" and "ANT 2" modes by using the SET UP menu or by pressing the ANT/VIDEO button on the TV. See page 18.



Downloaded from www.Manualslib.com manuals search engine

# Antenna/Cable TV Connection

## Connecting an antenna or Cable without a decoder box




**Notes:**

* Generally, the incoming cable for a Cable TV system can be connected directly to the TV antenna terminal just like a home antenna connection. You will be able to receive unscrambled cable channels.
- You can connect another source such as a home antenna or video game to the ANT-2 terminal.

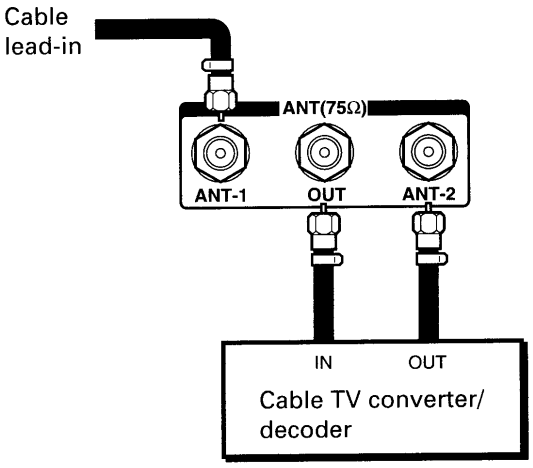
## Connecting Cable with a decoder box

Some cable companies offer "premium pay channels". Since the signals of these premium pay channels are scrambled, a cable TV converter/decoder is generally provided to the subscriber by the cable TV company. This decoder box is necessary for viewing scrambled channels. For more specific instructions on installing cable TV, consult your cable TV company.

You can choose between viewing unscrambled channels and scrambled channels by using the SET UP menu or by pressing the ANT/VIDEO button on the TV. See page 18.

Unscrambled channels will come through the ANT-1 terminal when the "ANT 1" mode is selected.
The scrambled channels from the decoder box will come through the ANT-2 terminal when the "ANT 2" mode is selected. Select channel 3 or 4 on your TV to match your converter's output channel and select channels using the converter's channel keys.

**Note:** The descrambler device may or may not be a part of the cable converter.





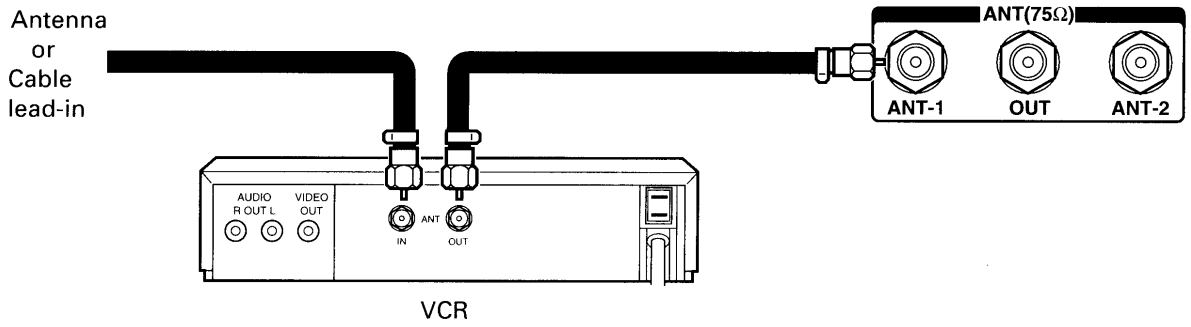



Downloaded from www.Manualslib.com manuals search engine

# Antenna/Cable TV and VCR Connections

After antenna cable connections are made, you are still required to connect the VCR using video/audio connecting cables for (stereo) playback of good quality from the VCR. See page 43.

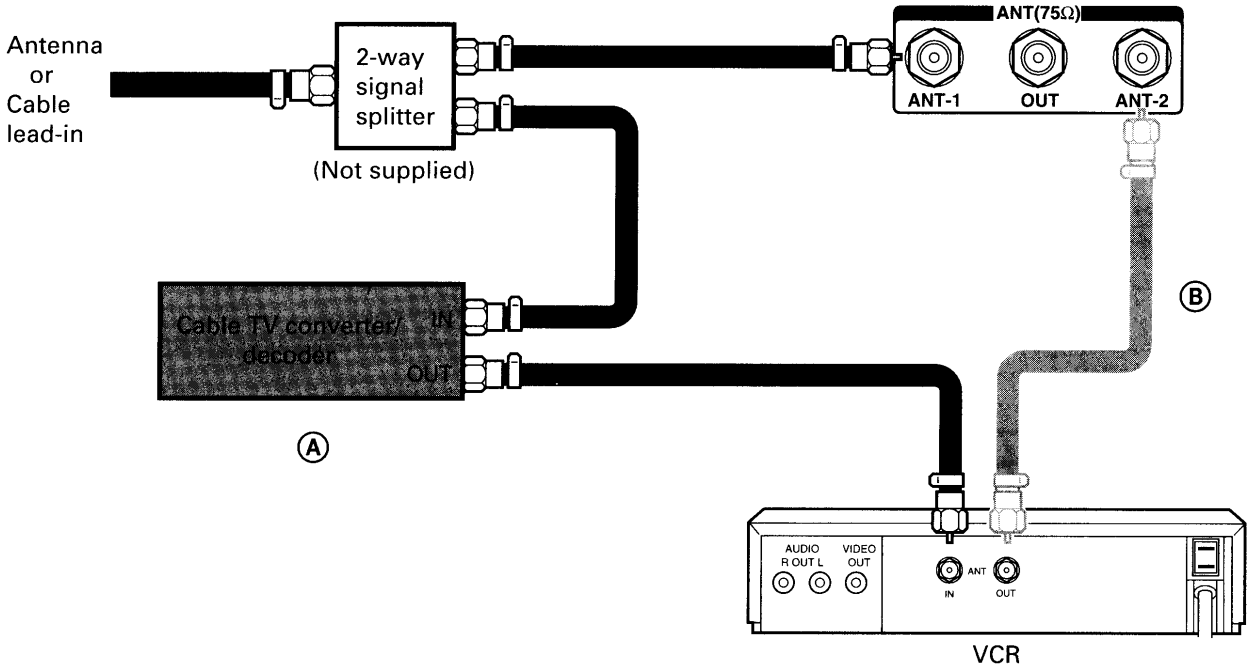
## Antenna/Cable TV connection via VCR (simplified method)




VCR

**Note:** On many VCR's, playing tapes causes the VCR's TV/VCR switching to disconnect the antenna signals from the TV. If you cannot select a certain channel, try pressing the TV/VCR button on the Remote Control.

## Using a 2-way signal splitter




VCR

**Notes:**

- When connecting a cable TV converter/decoder Ⓐ:
  The unscrambled channels will come through the ANT-1 terminal whenever the antenna input is set to the "ANT 1" mode.
  The scrambled channels from the decoder box will come through the VCR and the ANT-2 terminal whenever the antenna input is set to the "ANT 2" mode. Select channel 3 or 4 on your TV and VCR to match your converter's output channel. See page 18.
- The cable Ⓑ connection is necessary only when the cable TV converter/decoder Ⓐ is connected.

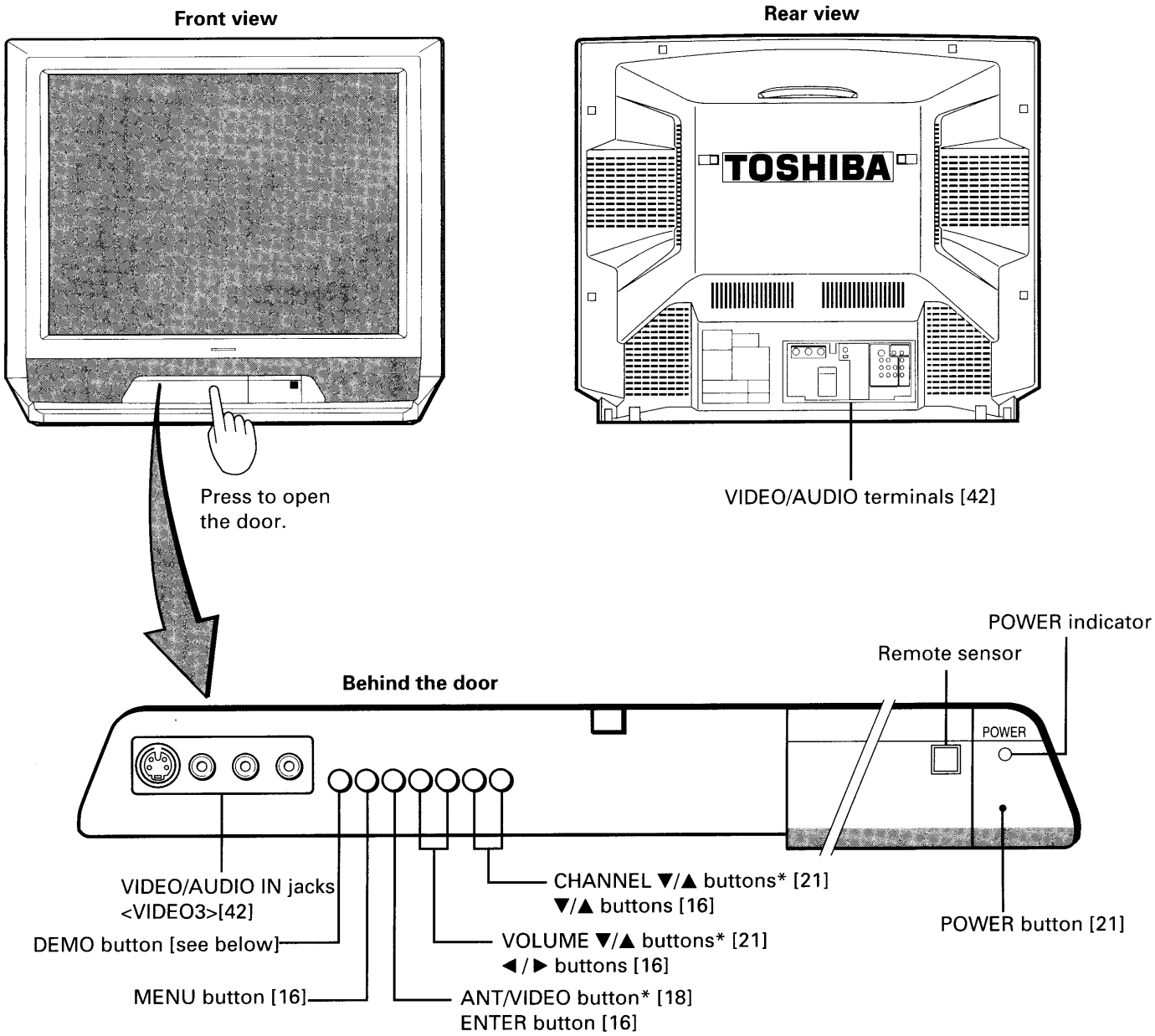


Downloaded from www.Manualslib.com manuals search engine

# Location of Controls (TV Set)

For specific use of each control, refer to pages in brackets.

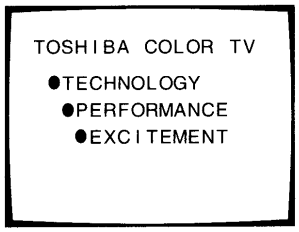





* Dual function buttons

***DEMO button***

The on-screen demonstration starts about 4 seconds after you press this button.
Your TV automatically displays a variety of its on-screen menus and special features. This function is provided for demonstration purpose only.
To stop the demonstration, press **DEMO** again, Exit, Recall or Power Off/On.

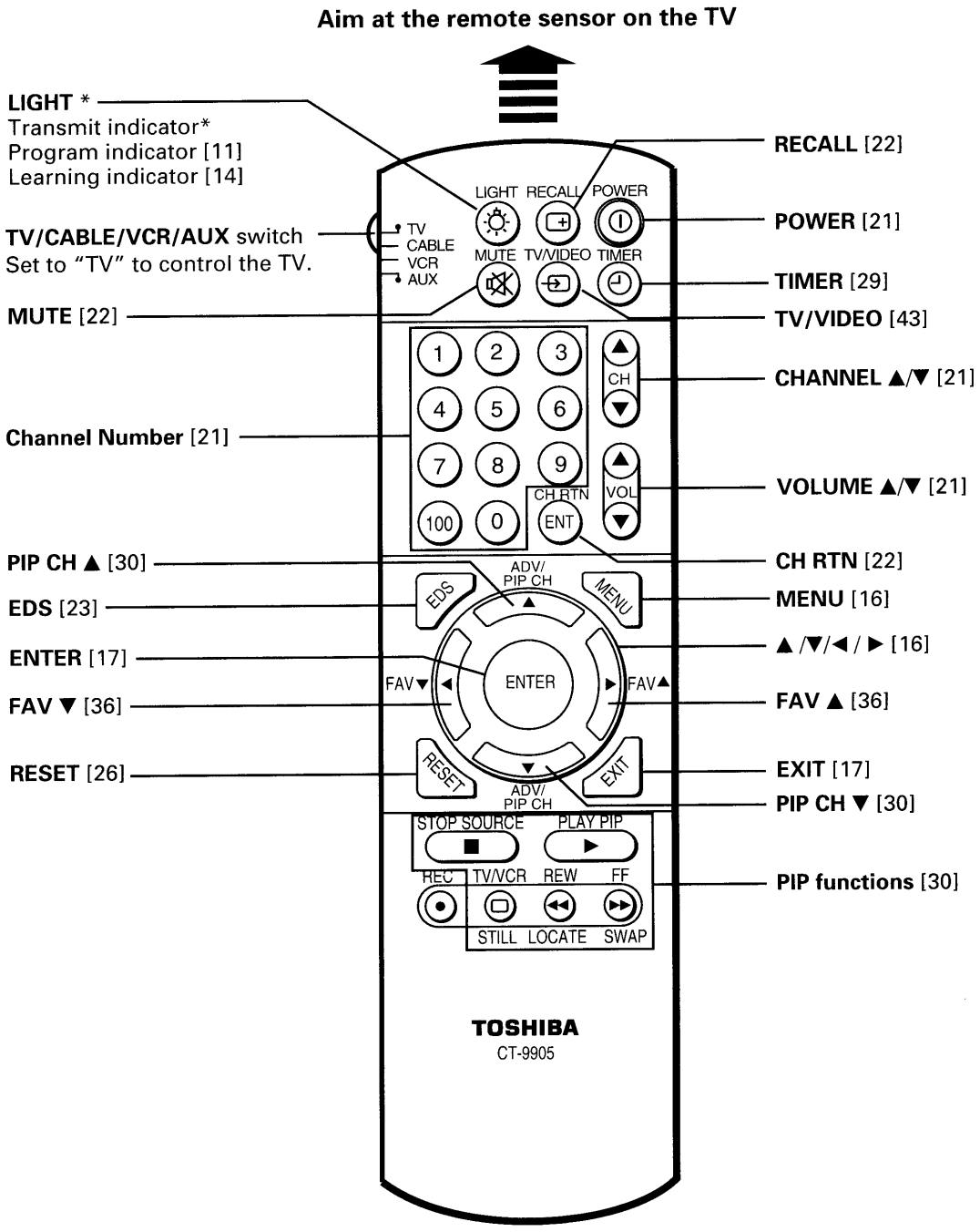





Downloaded from www.Manualslib.com manuals search engine

# Location of Controls (Remote Control)

Only the buttons that are used to operate the TV set are described here.
For details on the use of each control, refer to pages in brackets.




* When you press the LIGHT button, all buttons light up for 5 seconds by the back-light.
When you press a button other than the LIGHT button, this button lights up as the transmit indicator.



Downloaded from www.Manualslib.com manuals search engine

# Before Using the Remote Control

## Introductions

With this Remote Control, you can operate your TV and most models of remote-controlled VCR's and Cable TV converters even if they are different brands. See page 11. However, this Remote Control must be first programmed to control other brands of VCR's and/or Converters. If you will be using your TV set with a TOSHIBA VCR, your Remote has already been preprogrammed for you. Also, this Remote Control is capable of learning operating codes from most infrared remote control transmitters. See page 13.

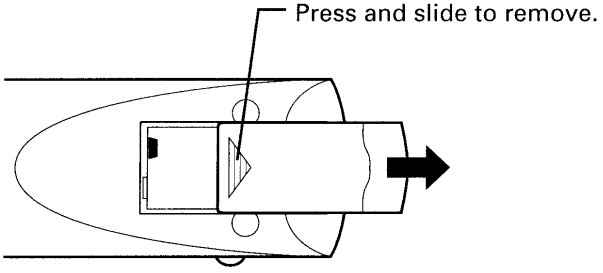
- Before attempting to operate your Remote Control, install the batteries according to the section "To install batteries" shown below.

**Notes:**

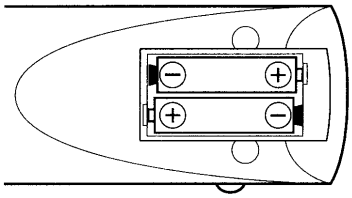
- After installing new batteries, the Remote Control will set itself to the codes for TOSHIBA's TV and VCR. If you are using the Remote Control to operate equipment that uses different codes, it will have to be reprogrammed for those codes.
- This Remote Control may have functions not available on the original remote controller.
- These functions may or may not operate your VCR or Cable TV Converter. Refer to the owner's manuals supplied with the equipment to see which functions are available.
- The remote controller supplied with your VCR or cable TV converter may have keys not duplicated on this Remote Control. If these functions are desired, the original remote controller will have to be used.

## To install batteries

**1** Place the Remote Control with the face down. Press down on the ridged area of the battery cover and slide it off.




**2** Place two "AA" size alkaline batteries, matching the + and – signs on each battery to the + and – signs of the battery compartment.



**3** Replace the battery cover until the lock snaps.

**CAUTION:**

- Do not throw your batteries into a fire. Dispose of your batteries in a designated disposal area.
- Do not combine used old batteries with new ones.
- Do not mix battery types.

### *Tips for Best Operation*

- For optimum performance, aim the Remote Control directly at the TV from a distance of no more than 16 ft (5m) and be sure there is no obstruction between the Remote Control and the TV.
- If your Remote Control does not always adjust the TV as you wish, you probably need to replace the batteries.
  Use alkaline batteries for longer use.
- Remove dead batteries immediately to prevent battery acid from leaking into the battery compartment.
- If you do not intend to use the Remote Control for a long period, remove the batteries.



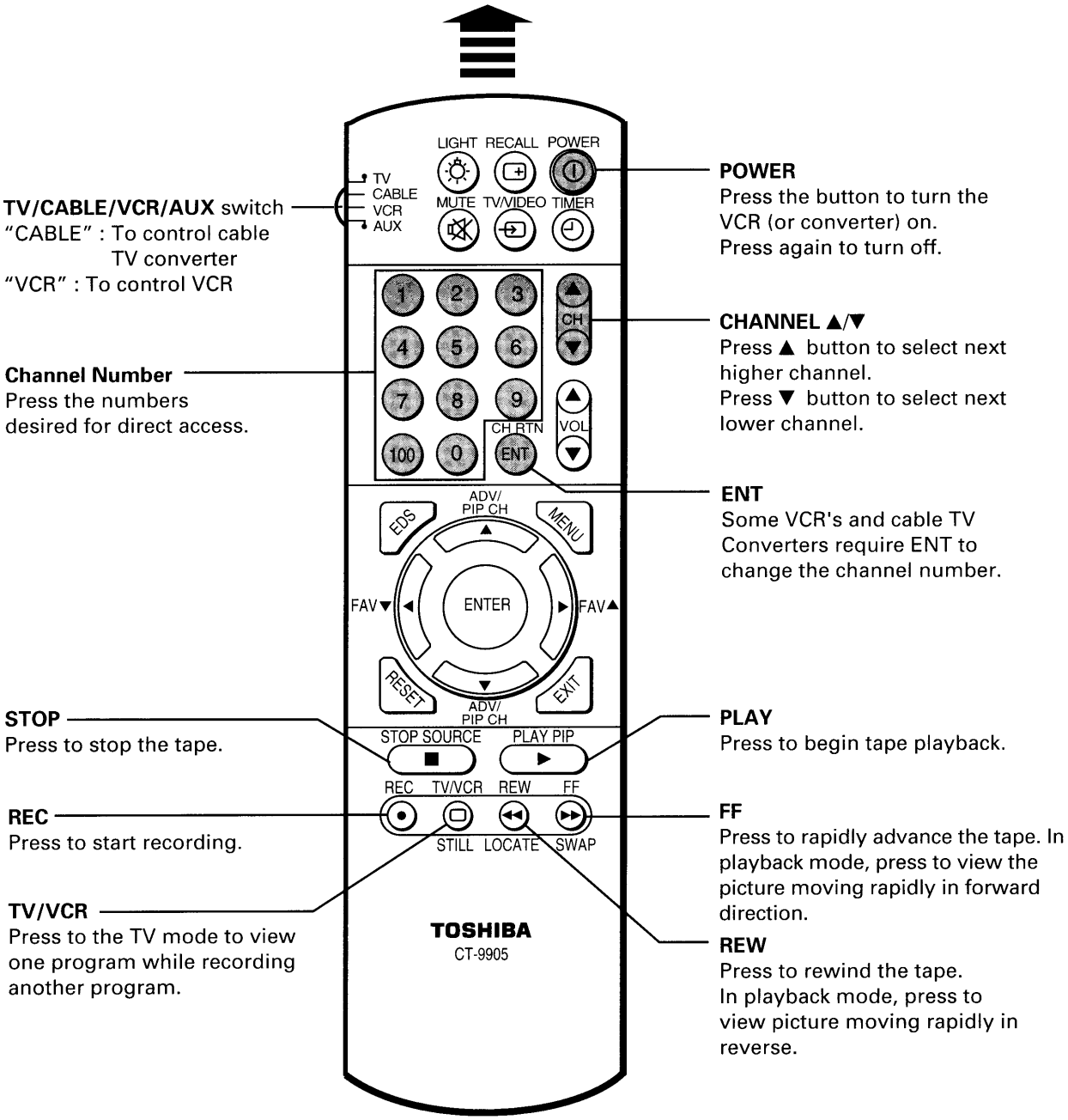


Downloaded from www.Manualslib.com manuals search engine

# Using the Remote with VCR or Cable TV Converter

- To control a TOSHIBA VCR, first set the TV/CABLE/VCR/AUX switch to "VCR" position. The buttons shown below will then control the VCR. The rest of the buttons operate the TV as usual.
  If you have another brand of VCR, you can probably program your Remote to control it.
  Details are on page 11.
- To control a cable TV converter, this Remote Control must be programmed to recognize the brand of your converter. See page 11. The shaded buttons can be used to control the cable TV converter.
  Set the TV/CABLE/VCR/AUX switch to "CABLE" position whenever you control the cable TV converter.

**Aim at the VCR or cable TV converter**




**TV/CABLE/VCR/AUX** switch
"CABLE" : To control cable TV converter
"VCR" : To control VCR

**Channel Number**
Press the numbers desired for direct access.

**STOP**
Press to stop the tape.

**REC**
Press to start recording.

**TV/VCR**
Press to the TV mode to view one program while recording another program.

**POWER**
Press the button to turn the VCR (or converter) on.
Press again to turn off.

**CHANNEL ▲/▼**
Press ▲ button to select next higher channel.
Press ▼ button to select next lower channel.

**ENT**
Some VCR's and cable TV Converters require ENT to change the channel number.

**PLAY**
Press to begin tape playback.

**FF**
Press to rapidly advance the tape. In playback mode, press to view the picture moving rapidly in forward direction.

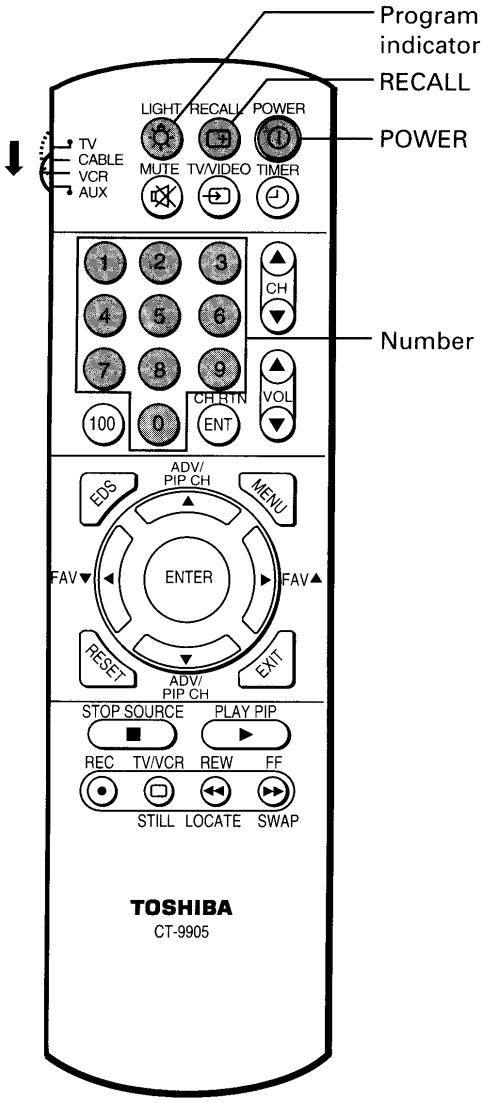
**REW**
Press to rewind the tape.
In playback mode, press to view picture moving rapidly in reverse.



Downloaded from www.Manualslib.com manuals search engine

# Programming the Remote Control

- This Remote Control is preprogrammed to operate TOSHIBA VCR's.
- To use VCR's other than Toshiba models (or cable converter), perform the following procedures before operating.




## To control other brands of VCR's and cable TV converters

**1** Refer to the ***"VCR code table"*** (or ***"Cable TV converter code table"***) on pages 12 and 13 to find the code number that corresponds to the brand name of your VCR (or your converter).

If more than one number is listed, try each one separately until you find the one that works.

**2** Set the **TV/CABLE/VCR/AUX** switch to "VCR" (or "CABLE").

**3** While holding down **RECALL**, press the **Number** buttons for the 3-digit code number for your brand of VCR (or cable box).
The program indicator lights up for 1 second when the programming is completed.
When an operation error has occurred, the indicator blinks.
Press **RECALL** again to reset.

**4** Point the Remote Control at the VCR (or at the converter) and press **POWER** to test the code number.
- **If the right number was entered,** the VCR (or the converter) should turn on.
- **If the VCR (or the converter) does not respond to the Remote Control,** repeat steps 1 to 4 with another code number.

**Notes:**
- You have to reprogram the Remote Control when you change its batteries.
- Some newer VCR's are capable of working on either of two remote codes. These VCR's have a switch labeled "VCR1/VCR2".
  If your VCR has this kind of switch, and does not respond to all the code numbers for your VCR brand name, set the switch to another position ("VCR1" or "VCR2") and reprogram the Remote Control.

For future reference, write the code you used.

VCR CODE: _____

CABLE CODE: _____





Downloaded from www.Manualslib.com manuals search engine

# Programming the Remote Control (Continued)

- In some rare cases, you may not be able to operate your non-Toshiba equipment with the supplied Remote Control. This is because your equipment may use a code that is not provided with this Remote Control. In this case, use the equipment's own remote controller.

### *VCR code table*

| BRAND NAME | CODE NUMBER |
|---|---|
| Adventura | 019 |
| Aiko | 297 |
| Aiwa | 019 |
| Akai | 060,068,080,125,261 |
| Akiba | 091 |
| Alba | 039,228,297,314 |
| American High | 054 |
| Amstrad | 019 |
| Anam | 181 |
| Anitech | 091 |
| ASA | 056,100 |
| Asha | 259 |
| Asuka | 056 |
| Audiovox | 056 |
| Baird | 019,123 |
| Basic Line | 039,091,297 |
| Beaumark | 259 |
| Bell & Howell | 123 |
| Blaupunkt | 053,181 |
| Brandt | 206 |
| Broksonic | 140,203,230,380 |
| Bush | 091,228,297 |
| Calix | 056 |
| Canon | 054 |
| Capehart | 039 |
| Carver | 100 |
| CCE | 091,297 |
| CGE | 019 |
| Cimline | 091 |
| Citizen | 056,297 |
| Clatronic | 039 |
| Colt | 091 |
| Condor | 039 |
| Craig | 056,066,091,259 |
| Crown | 091,297 |
| Curtis Mathes | 054,079 |
| Cybernex | 259 |
| Daewoo | 039,064,065,297 |
| Dansai | 091 |
| Daytron | 039 |
| De Graff | 061 |
| Decca | 019,100 |
| Dual | 060 |
| Dumont | 019,100,123,124 |
| Dynatech | 019 |
| Elcatech | 091 |
| Electrohome | 056 |
| Electronic | 019 |
| Electrophonic | 056 |
| Emerex | 051 |
| Emerson | 019,021,056,062,080,140,203,227,228,230,231,313,314,380 |
| ESC | 297 |
| Ferguson | 060 |
| Fidelity | 019 |
| Finlandia | 100,123,129 |
| Finlux | 019,061,100,123,124 |
| Firstline | 056,062,064,091,228 |
| Fisher | 065,066,073,085,123 |
| Frontech | 039 |
| Fuji | 052,054 |
| Funai | 019 |
| Garrard | 019 |
| GE | 054,079,084,221 |
| GEC | 100 |
| General | 071 |
| Go Video | 251,298 |
| Goldstar | 056,057 |
| Goodmans | 019,039,056,081,091,297 |
| Gradiente | 019 |
| Graetz | 060,123 |
| Granada | 065,100,123 |
| Grandin | 019,056,091 |
| Grundig | 100 |
| Harley Davidson | 019 |
| Harman/Kardon | 057 |
| Harwood | 091 |
| Hcm | 091 |
| Headquarter | 065 |
| HI-Q | 066 |
| Hinari | 091,227 |
| Hitachi | 019,060,061,084,124 |
| Hypson | 091 |
| Imperial | 019 |
| Interfunk | 100 |
| ITT | 060,065,123,125 |
| ITV | 056,297 |
| JCL | 054 |
| Jensen | 060 |
| JVC | 027,060,086 |
| Kaisui | 091 |
| Kendo | 125,228 |
| Kenwood | 057,060,065,086 |
| KLH | 091 |
| Kodak | 054,056 |
| Korpel | 091 |
| Leyco | 091 |
| Lloyd | 019 |
| Loewe | 056 |
| Loewe Opta | 100 |
| Logik | 091,259 |
| Luxor | 062,065,123,125 |
| LXI | 056 |
| M-Electronic | 019 |
| Magnavox | 019,054,058,100,129,168 |
| Magnin | 259 |
| Manesth | 064,091 |
| Marantz | 054,057,081,100 |
| Marta | 056 |
| Masushita | 054 |
| Matsui | 227,228,314 |
| MEI | 054 |
| Memorex | 019,054,056,058,065,066,067,123,259 |
| Memphis | 091 |
| Metz | 181 |
| MGA | 062,080 |
| MGN Technology | 259 |
| Minolta | 061,124 |
| Mitsubishi | 062,080,086,100,192,233,261 |
| Motorola | 054,067 |
| MTC | 019,259 |
| Multitech | 019,091 |
| Murphy | 019 |
| NEC | 057,059,060,069,086 |
| Neckermann | 100 |
| Nesco | 091 |
| Nikko | 056 |
| Noblex | 259 |
| Nokia | 060,065,123,125,259 |
| Nordmende | 060 |
| Oceanic | 019 |
| Olympus | 054 |
| Optimus | 056,067 |
| Optonica | 067,081 |
| Orion | 140,227,228,314 |
| Osaki | 019,056,091 |
| Otto Versand | 100 |
| Palladium | 056,091 |
| Panasonic | 054,096,115,181,244 |
| Penney | 054,056,057,059,061,073,259 |
| Pentax | 061,084,124 |
| Perdio | 019 |
| Philco | 054 |
| Philips | 054,081,100,129 |
| Phonola | 100 |
| Pilot | 056 |
| Pioneer | 086,100 |
| Portland | 039 |
| Profitronic | 259 |
| Proline | 019 |
| Protec | 091 |
| Pulsar | 058 |
| Pye | 100 |



Downloaded from www.Manualslib.com manuals search engine

Quarter ..... 065
Quartz ..... 065
Quasar ..... 054,096,115
Quelle ..... 100
Radio Shack ..... 019,056
Radiola ..... 100
Radix ..... 056
Randex ..... 056
RCA ..... 054,061,079,084, 096,115,124,125, 168,221
RCA Unified ..... 079
Realistic ..... 019,054,056,065, 066,067,081,085, 123,259
Rex ..... 060
Ricoh ..... 053
Roadstar ..... 056,091,259,297
Runco ..... 058
Saba ..... 060
Saisho ..... 227,228
Salora ..... 062,065,125
Samsung ..... 064,259
Sanky ..... 058,067
Sansui ..... 060,086
Sanyo ..... 065,066,123,259
SBR ..... 100
Schaub Lorenz ..... 019,060
Schneider ..... 019,091,100,129
Scott ..... 062,064,140,203, 229,230,231
Sears ..... 054,056,061,065, 066,073,085,123, 124
SEG ..... 259
SEI ..... 100
Seleco ..... 060
Sentra ..... 039
Sharp ..... 067,081
Shintom ..... 091
Shogun ..... 259
Siemens ..... 056,123
Silva ..... 056
Singer ..... 091
Sinudyne ..... 100
Sontec ..... 056
Sony ..... 051,052,053,054
STS ..... 061
Sunstar ..... 019
Sylvania ..... 019,054,062,100, 129
Symphonic ..... 019
Tandy ..... 019,123
Tashiko ..... 019
Tatung ..... 019,060,100
Teac ..... 019,060
Technics ..... 054,181
Teknika ..... 019,054,056,071
Teleavia ..... 060
Telefunken ..... 060,206
Tenosal ..... 091
Tensai ..... 019
Thomson ..... 060
Thorn ..... 060,123
TMK ..... 227,259
Toshiba ..... 060,062,064,085, 229,231,385
Totevision ..... 056,259
Triumph ..... 227
Unitech ..... 259
Universum ..... 019,056,068,100, 125
Vector ..... 064
Vector Research .... 057,059
Victor ..... 027,060,086
Video Concepts ..... 059,064,080
Videosonic ..... 259
Wards ..... 019,054,061,066, 067,081,091,168, 231,259
XR-1000 ..... 019,054,091
Yamaha ..... 057,060
Yamishi ..... 091
Yokan ..... 091
Yoko ..... 039,259
Zenith ..... 052,053,058

### *Cable box code table*

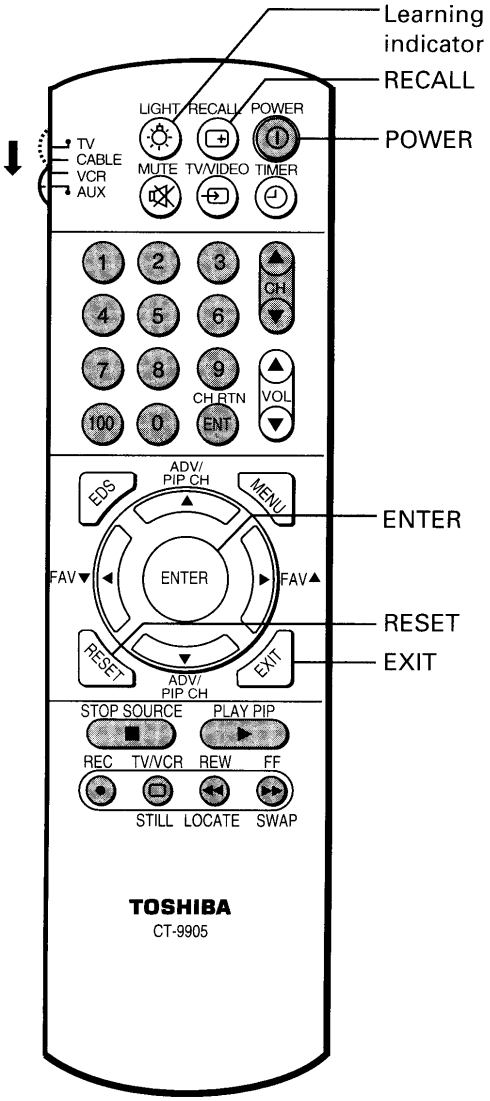
| BRAND NAME | CODE NUMBER |
|---|---|
| ABC | 022,026,030,032, 033,036 |
| Archer | 058,172 |
| Century | 172 |
| Citizen | 172 |
| Colour Voice | 044,050 |
| Comtronics | 059,079 |
| Contec | 038 |
| Eastern | 021 |
| Garrard | 172 |
| Gemini | 034,089 |
| General Instrument | 030 |
| Hamlin | 028,039,278,292 |
| Hitachi | 030 |
| Hytex | 026 |
| Jasco | 172 |
| Jerrold | 022,030,031,033 034,043,045,295 |
| Macom | 052 |
| Magnavox | 046 |
| Memorex | 019 |
| Movie Time | 175 |
| NSC | 089,175 |
| Oak | 026,038 |
| Panasonic | 040 |
| Paragon | 019 |
| Philips | 044,046,047,048 049,050,079,172 |
| Pioneer | 163 |
| Popular Mechanics | 419 |
| Pulsar | 019 |
| PVP Stereo Visual Matrix | 022 |
| RCA | 040 |
| Regal | 039,278,292 |
| Regency | 021 |
| Rembrandt | 030,089 |
| Runco | 019 |
| Samsung | 059,163 |
| Scientific Atlanta | 025,027,036,296 346 |
| Signal | 034,059 |
| Signature | 030 |
| SL Marx | 059 |
| Sprucer | 040 |
| Standard Components | 174 |
| Starcom | 022,034 |
| Stargate | 034,059 |
| Starquest | 034 |
| STS | 175 |
| Teleview | 059 |
| Tocom | 031,032,078 |
| Toshiba | 019 |
| Tusa | 034 |
| Unika | 172 |
| United Artists | 026 |
| United Cable | 022 |
| Universal | 058,096,172,210 |
| Viewstar | 046,079 |
| Zenith | 019 |



Downloaded from www.Manualslib.com manuals search engine

# Programming the Remote Control (Continued)

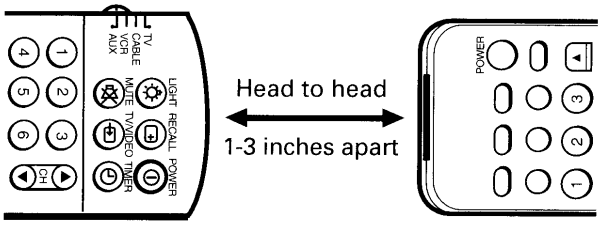
- This Remote Control is capable of learning operating codes from most infrared remote control transmitters. You can control the functions of your TV and a variety of video/audio equipment with the supplied Remote Control.
- The 21 buttons marked with ◎ can be used as the Learning buttons.




## To learn the operating code of another remote controller

**1** Set the **TV/CABLE/VCR/AUX** switch to the "AUX" position.

**2** Place the supplied Remote Control and the remote control transmitter to be learned, head to head approximately 1 to 3 inches (3 to 8 cm) apart.




**3** Hold down **RECALL** and **ENTER** at the same time to enter into the learning mode.
The learning indicator will blink.

**4** Hold down the Learning button (marked ◎) on the supplied Remote Control until the learning indicator lights up.
When you press a button other than a Learning button, the indicator will blink. (The button you pressed is not learnable.)

**5** Hold down the button of the function to be learned on the other remote control transmitter for about 3 seconds until the learning indicator starts blinking.

**Note:** If the learning indicator blinks rapidly, the supplied Remote Control cannot learn the operating code or an error has occurred.
Try steps 4 and 5 again.

**6** Repeat steps 4 and 5 for storing other functions into other buttons.

**7** Press **EXIT** to release the learning mode.

**8** To check your programming, operate the appropriate equipment with the supplied Remote Control. If the equipment does not operate as expected, repeat steps 1 to 7.
If needed, try changing the distance between the two remote controls.



Downloaded from www.Manualslib.com manuals search engine

## To cancel the learned operating codes

1 Set the **TV/CABLE/VCR/AUX** switch to the "AUX" position.

2 Hold down **RECALL** and **ENTER** at the same time to enter into the learning mode. The learning indicator will blink.

3 Hold down **RECALL** and **RESET** at the same time for about 6 seconds until the learning indicator starts blinking.

**Note:** The learned code is not canceled if you release the buttons while the indicator is lit.

4 Press **EXIT** to release the learning mode.





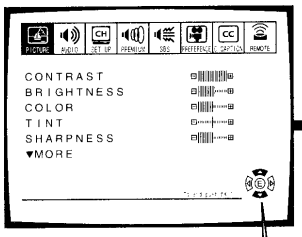
Downloaded from www.Manualslib.com manuals search engine

# Menu Function (General Instructions)

We suggest you familiarize yourself with the procedure before using the menu function.
To adjust any TV feature by using the menu function, follow the flow explained below. You will take four main steps until the adjustments that can be made to the TV appear on the screen.

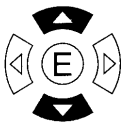
**Step 1** Press **MENU** → **Step 2** Press ◀ or ▶ → **Step 3** Press ▲ or ▼ → **Step 4** Press ◀ or ▶

Call up the menu display.




(e.g. PICTURE menu)

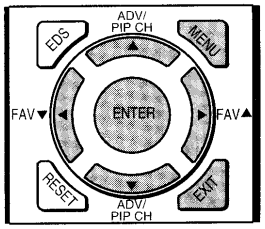
**Menu-key icon**



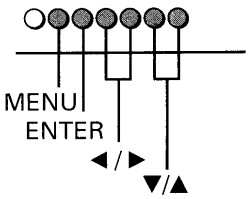

Current step ..... Gray
Next step ..... Blue

**Menu-function keys**

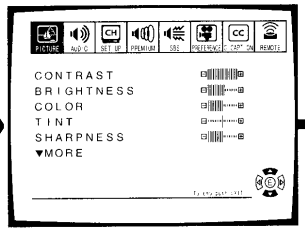
Remote Control




TV set

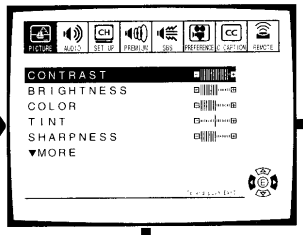



Select the menu you want.

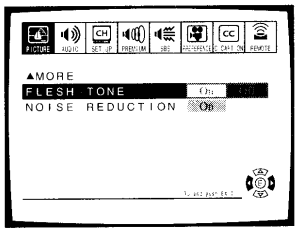



PICTURE menu

Select the item you want.

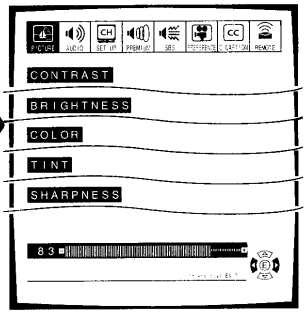


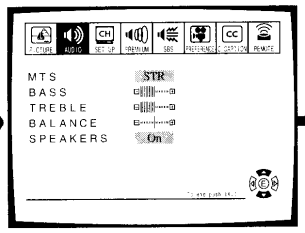

Page 1



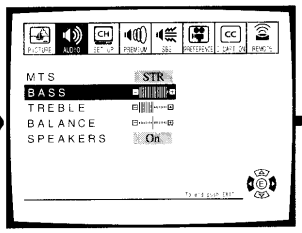

Page 2

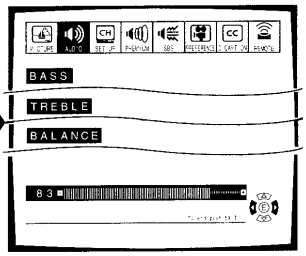
Adjust the item.

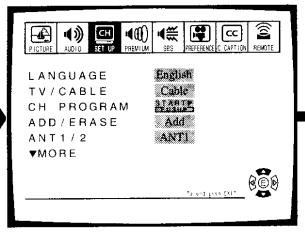


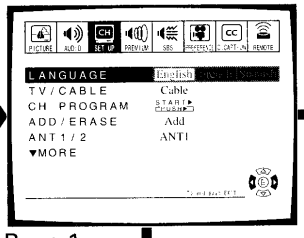

AUDIO menu



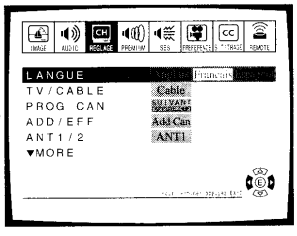



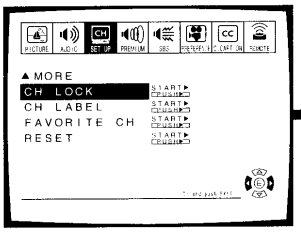




SET UP menu

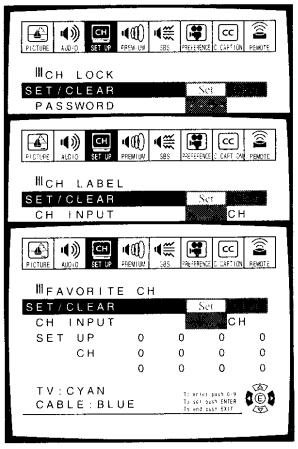



Page 1




Page 2

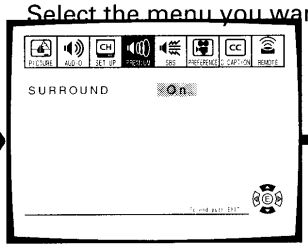


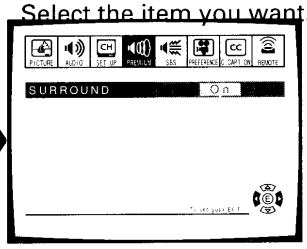

Continued to the next page



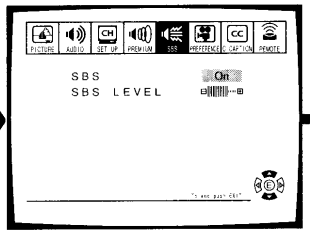
Downloaded from www.Manualslib.com manuals search engine

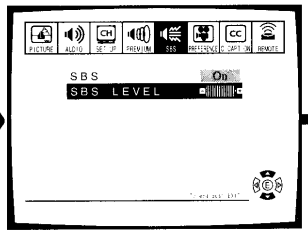
| Step 1 | Step 2 | Step 3 | Step 4 |
|---|---|---|---|
| Press **MENU** | Press ◄ or ► | Press ▲ or ▼ | Press ◄ or ► |
| | Select the menu you want. | Select the item you want. | Adjust the item. |

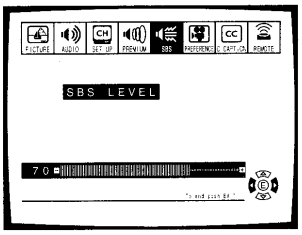


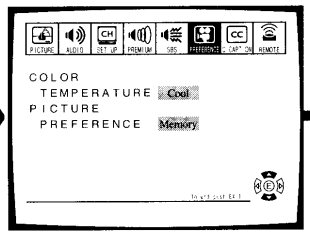

PREMIUM menu

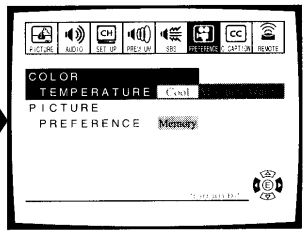


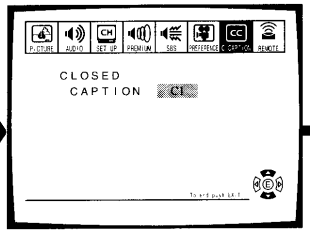



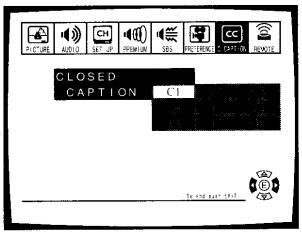

SBS menu



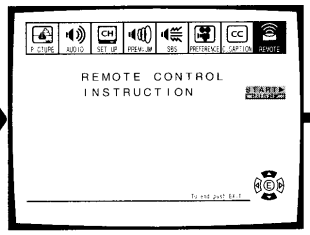



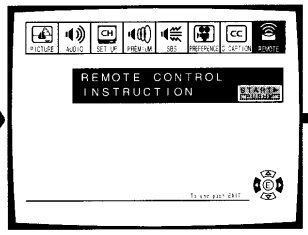

PREFERENCE menu

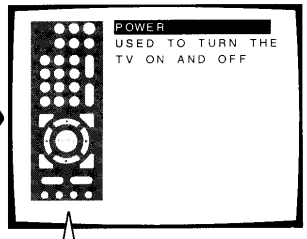


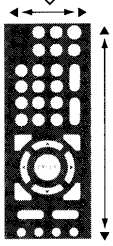

C.CAPTION menu




REMOTE menu



Pressing ◄/►/▼/▲ buttons on the Remote Control will change the button's explanations on the screen.

**Notes:**

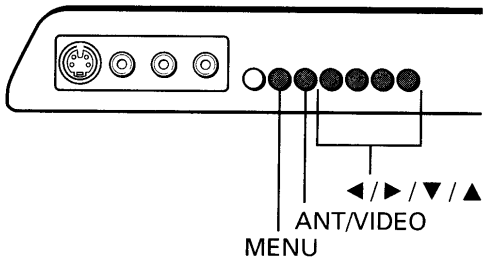
- The ENTER button should be used to activate your settings of the functions in the SET UP menu after step 4.
- To return to the first menu shown in step 1, press the MENU button.
- The main menus (step 1 – step 3) will disappear automatically if you do not press a button within 15 seconds and the other displays will also disappear in 6 seconds. If you want to erase the screen of all on-screen displays instantly, press the EXIT button on the Remote Control.
- The ▼/▲ buttons on the TV function as the CHANNEL ▼/▲ buttons when no menu display is on the screen.
- The ◄/► buttons on the TV function as the VOLUME ▼/▲ buttons when no menu display is on the screen.
- The ◄/► buttons on the Remote Control function as the FAV ▼/▲ buttons when no menu display is on the screen.

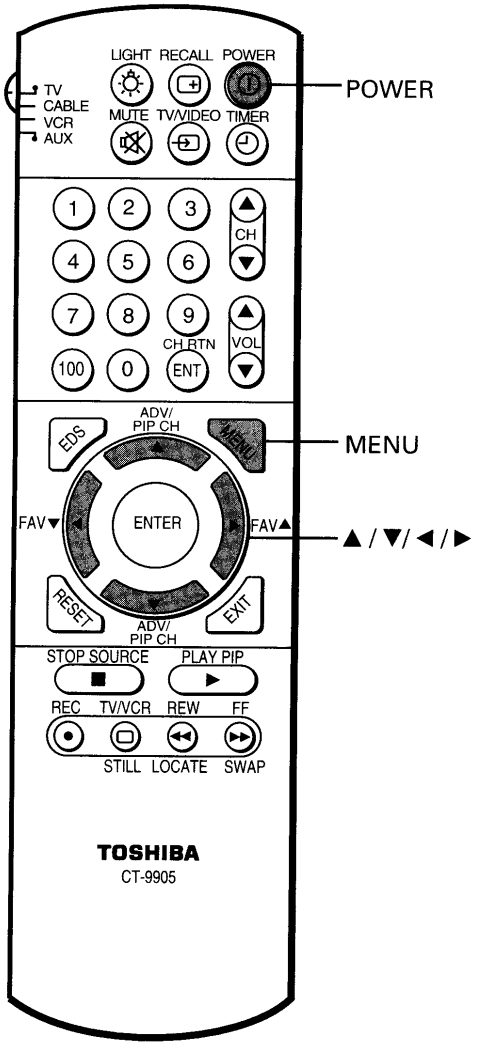


Downloaded from www.Manualslib.com manuals search engine

# Selecting the Antenna Input

Your TV has two separate antenna inputs (ANT-1 and ANT-2) that allow you to connect two different signal sources, if desired.

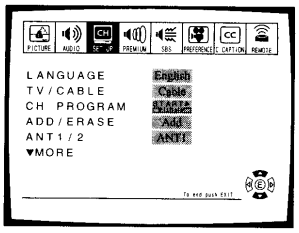



## Using the SET UP menu

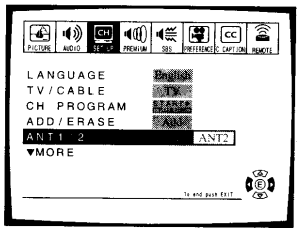
**1** Press **POWER** to turn on the TV.

**2** Press **MENU**, then press ► or ◄ until the SET UP menu appears.



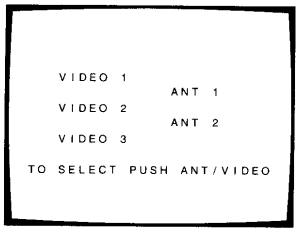

**3** Press ▼ (or ▲) until "ANT1/2" is highlighted.

**4** Press ► or ◄ to highlight either "ANT1" or "ANT2", whichever matches the antenna terminal you use.




## Using the ANT/VIDEO button (on the TV)

Each time you press the **ANT/VIDEO** button, the "ANT 1", "VIDEO 1", "VIDEO 2", "VIDEO 3" or "ANT 2" mode will be selected in this order.
The selected mode will be displayed in purple to show which signal source you are watching.
Press the button until "ANT 1" or "ANT 2" is displayed in purple to match the antenna terminal you use.



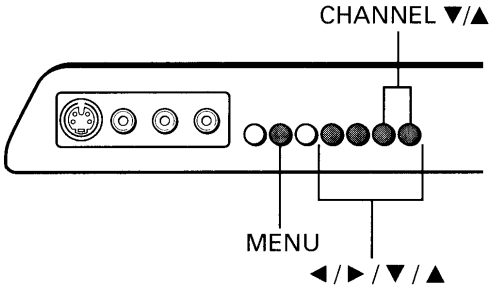

**Note:** This button functions as the ENTER button while a menu is on the screen.

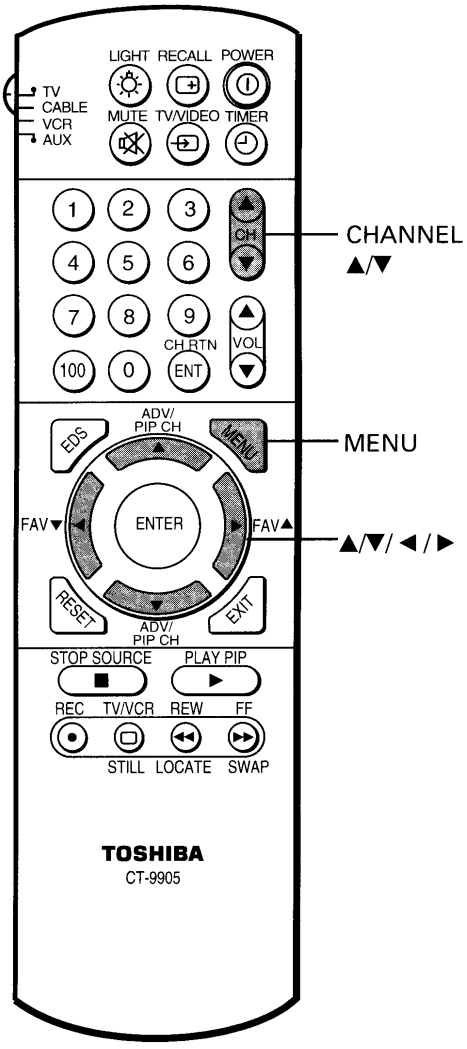


Downloaded from www.Manualslib.com manuals search engine

# Programming Channel Memory

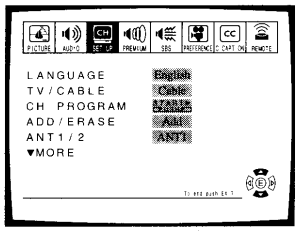
The channel memory is a list of TV channel numbers your TV will stop on when you press the CHANNEL ▲ or ▼ button.
**First, use the TV/CABLE and CH PROGRAM functions to preset all active channels in your area automatically.**
If necessary, arrange the preset channels with the ADD/ERASE functions so that you can tune into only desired channels.
**Note:** If you utilize both ANT-1 and ANT-2 terminals, perform programming channels for each input source.



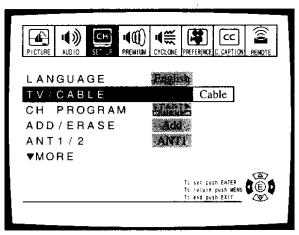

## TV/CABLE function

**1** Press **MENU, then** press ► or ◄ until the SET UP menu appears.



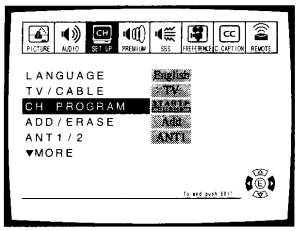

**2** Press ▼ (or ▲) until "TV/CABLE" is highlighted.

**3** Press ► or ◄ to highlight either "TV" or "Cable", whichever you use.

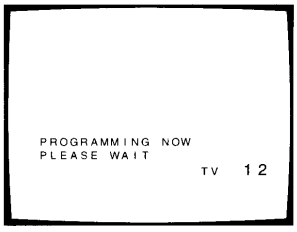



## CH PROGRAM function

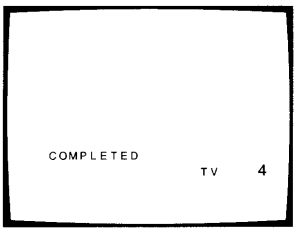
**1** Select "CH PROGRAM" following steps 1 and 2 above.




**2** Press ► or ◄ to start channel programming.
The TV will automatically cycle through all the TV or CABLE channels selected by the TV/CABLE function, and store active channels in channel memory.




**3** When channel programming is complete, you will see the message to the right.



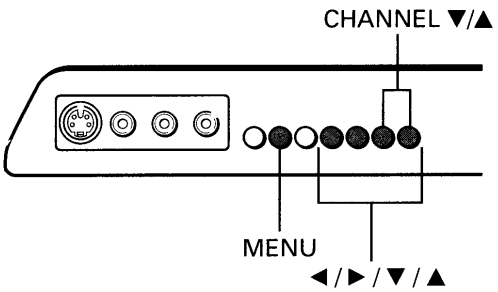

**4** Press **CHANNEL** ▲ or ▼ to make sure the channel programming has been done properly.

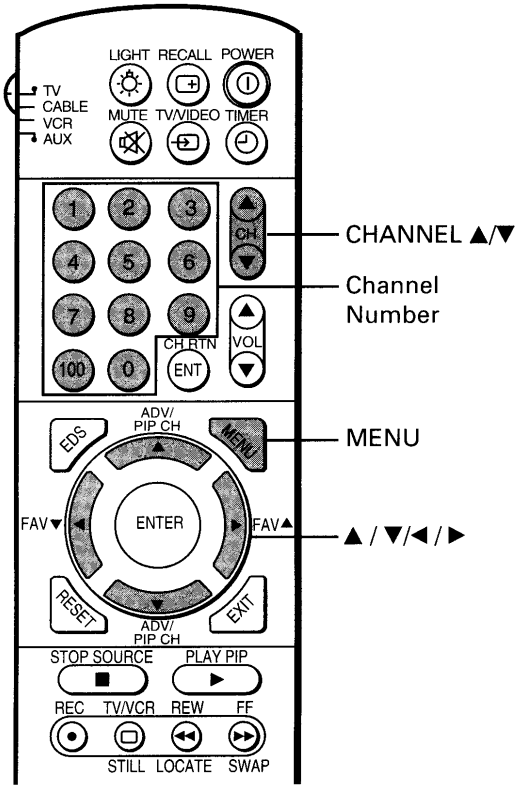




Downloaded from www.Manualslib.com manuals search engine

# Programming Channel Memory (Continued)



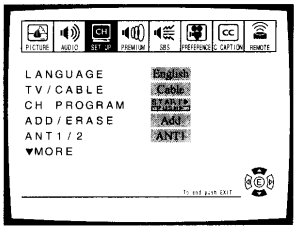




## ADD/ERASE function

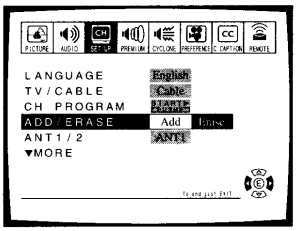
After performing the CH PROGRAM function, you can add or erase specific channels.

**1** Select the channel you want to erase using the **CHANNEL** ▲ or ▼ button, or select the channel you want to add using the **Channel Number** buttons.

**2** Press **MENU**, then press ► or ◄ until the SET UP menu appears.




**3** Press ▼ (or ▲) until "ADD/ERASE" is highlighted.




**4** Press ► or ◄:

**To erase the channel**
Press the button until "Erase" is highlighted.

**To add the channel**
Press the button until "Add" is highlighted.

**5** Repeat steps 1 to 4 for other channels.

You have now completed the channel programming.

**Note:** The CHANNEL ▼/▲ buttons on the TV function as the ▼/▲ buttons while a menu is on the screen.

### CABLE channel reference chart

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Number on this TV** | 1 | 5 | 6 | 14 | 15 | 16 ····· | 34 | 35 | 36 | 37 | 38 ····· | 60 | 61 | 62 | 63 | 64 | 65 | 66 | |
| **Corresponding CABLE channel** | A-8 | 5(A-7) | 6(A-6) | A | B | C ····· | U | V | W | AA | BB ····· | XX | YY | ZZ | AAA | BBB | 65 | 66 | |
| **Number on this TV** | 67 | 68 | 69 ····· | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 ····· | 123 | 124 | 125 | | |
| **Corresponding CABLE channel** | 67 | 68 | 69 ····· | 92 | 93 | 94 | A-5 | A-4 | A-3 | A-2 | A-1 | 100 | 101 | 102 ····· | 123 | 124 | 125 | | |

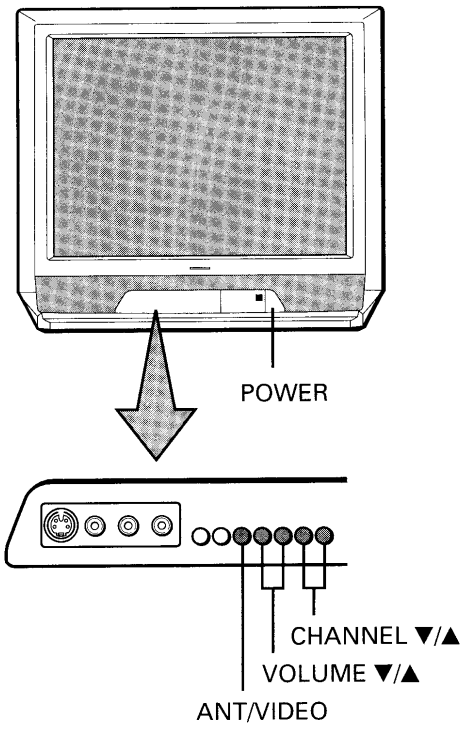
The above chart is typical of many cable system channel allocations. If in doubt, consult your cable company.



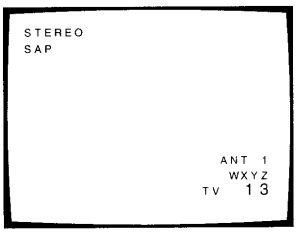
Downloaded from www.Manualslib.com manuals search engine

# Watching TV Programs

- First set the TV/CABLE/VCR/AUX switch on the Remote Control to the "TV" position.




**1** Press **POWER** to turn on the TV.
The following on-screen information will be displayed for a few seconds.




- Antenna mode (when in the TV mode).
- Channel number or the VIDEO mode selected.
- Channel label (if previously preset).
- Stereo or SAP audio status.

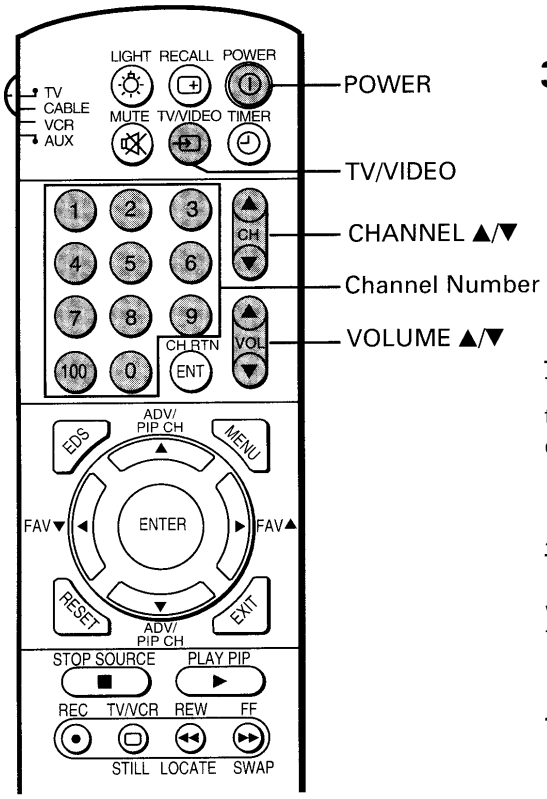
To turn off the TV, press **POWER** again.

**2** Select a channel in one of the following two ways.

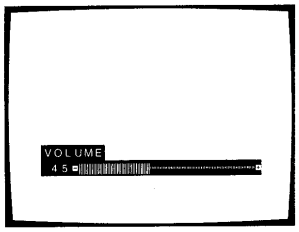
- **To scan the memorized channels in numerical sequence**
  Press **CHANNEL ▲** to select the next higher channel.
  Press **CHANNEL ▼** to select the next lower channel.
  Press the button again to select the next memorized channels.

- **To select a channel directly**
  Press the **Channel Number** buttons (0-9 and 100).
  To select channel 4, press "4" (or press "0", "4").
  To select channel 38, press "3", "8".
  To select channel 125, press "100", "2", "5" in sequence.

**If you cannot select certain channels, either TV (off the air) or CABLE channels**
Check if the TV/CABLE function is properly set. See page 19.




**3** Press **VOLUME ▼/▲** to adjust the volume.
To increase the volume, press ▲.
To decrease the volume, press ▼.




### *Watching Video Input*

The TV/VIDEO button (or ANT/VIDEO button on the TV) is used to view the signals coming from other devices like VCR's or Videodisc Players connected to this TV.
Details are on page 43.

### *Auto-Power-Off*

If a vacant channel is tuned or TV broadcast for a day is finished, the TV will automatically turn off after about 15 minutes.
This feature does not operate in the VIDEO mode.

### *Last Mode Memory*

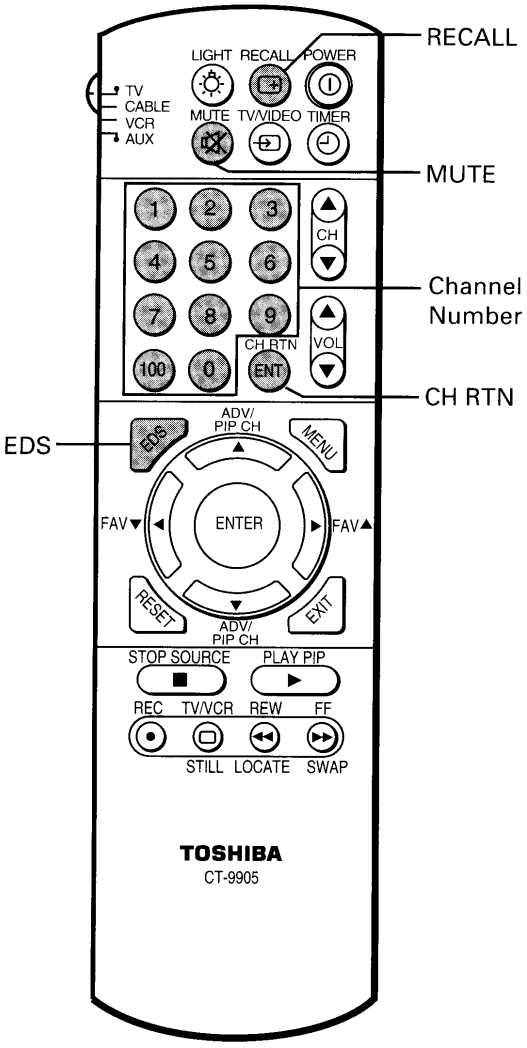
If the power is cut off while you are viewing the TV and the power is resupplied, the TV is turned on automatically by the *Last Mode Memory* feature. If the power is going to be off or when you leave home for a long time, remove the power plug from the wall outlet to prevent the TV from turning on in your absence.





Downloaded from www.Manualslib.com manuals search engine

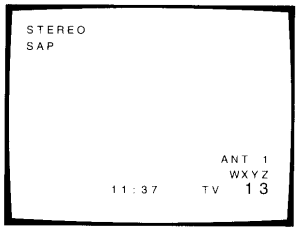
# Convenient Remote Functions




## To display on-screen information

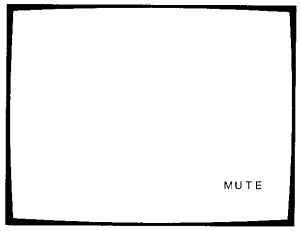
Press **RECALL** to display the following on-screen information.

- Antenna mode (when in TV mode)
- Channel number or VIDEO mode selected
- Channel label (if previously preset)
- Time (if clock has been set)
- Stereo or SAP audio status




## To mute the sound

Press **MUTE** to mute the sound. The word "MUTE" will be displayed on the screen as shown. This is useful during telephone calls or other interruptions.
To restore the sound, press **MUTE** again.




**Note:** When the MUTE button is pressed, the Closed-Captioned feature (CAPTION 1) is activated. To deactivate, press the MUTE button again. (This feature only functions when the Closed Caption mode is set to "Off". See page 38.)

## To change quickly between two channels

Press **CH RTN** to return to the last channel viewed.
This is useful should you want to view two channels. This allows you to view two programs without entering an actual channel number each time.

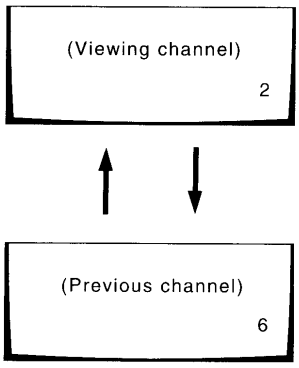
### To operate this function

**1** Select the first channel you want to view.

**2** Select the other channel with the **Channel Number** buttons.

**3** Press **CH RTN**.
The previous channel will return.

Each time you press **CH RTN**, the TV will switch back and forth between the two channels.



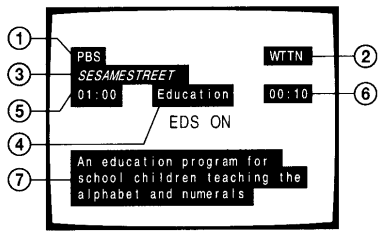



Downloaded from www.Manualslib.com manuals search engine

## To display the EDS information

Press **EDS** to display the following EDS (Extended Data Service) information for about 30 seconds.

- Network name ①
- Call letters ②
- Program name ③
- Program type ④
- Program length ⑤
- Time elapsed in show ⑥
- Program description ⑦

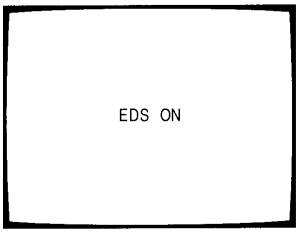



Some of the above information may not be displayed.

---

**If the TV program you are watching does not include the EDS information**

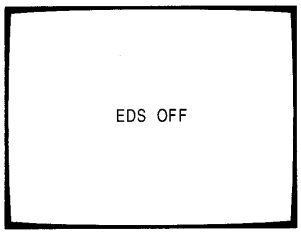
Only "EDS ON" will be displayed for about 4 seconds when you press **EDS**.




---

**To erase the EDS display**

Press **EDS** again.



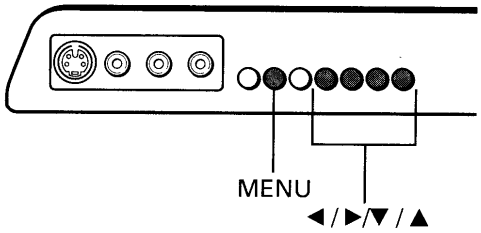


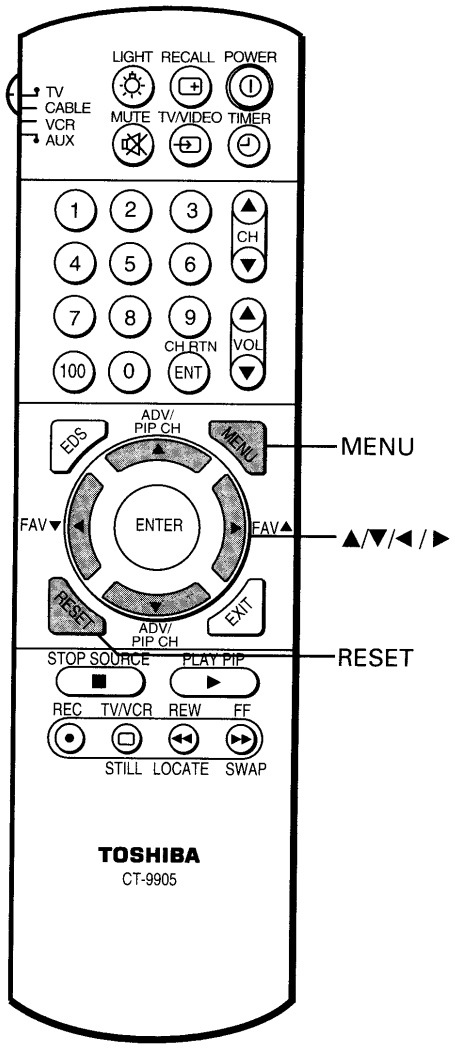



Downloaded from www.Manualslib.com manuals search engine

# Adjusting the Picture

You can adjust the picture quality (CONTRAST, BRIGHTNESS, COLOR, TINT and SHARPNESS) to suit your taste.

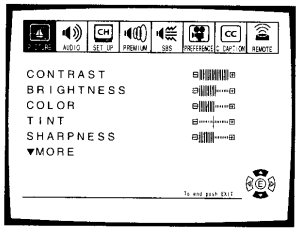



**Note:** There are two more items in the PICTURE menu — FLESH TONE and NOISE REDUCTION. To use these functions, see page 40.

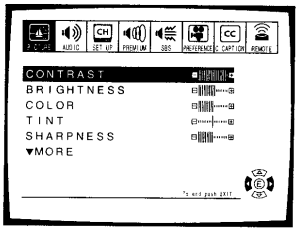
## To adjust the picture quality

**1** Press **MENU** to display the PICTURE menu on the screen.

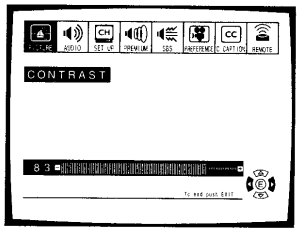



**2** Press ▼ (or ▲) until the item you want to adjust is highlighted.

**Example:** When adjusting "CONTRAST"



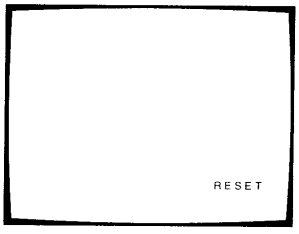

**3** Press ► or ◄ to adjust the level.




| Selection | Pressing | |
|---|---|---|
| | ◄ | ► |
| CONTRAST | lower | higher |
| BRIGHTNESS | darker | lighter |
| COLOR | paler | deeper |
| TINT | reddish | greenish |
| SHARPNESS | softer | sharper |

The above five PICTURE items you have adjusted will be stored into "Memory" automatically. To use these settings, see page 25.

**To reset the picture adjustments to the factory-preset status**
Press **RESET** (or perform the RESET function on page 26).



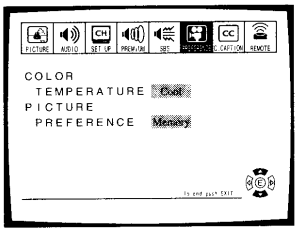



Downloaded from www.Manualslib.com manuals search engine

## To select the color temperature

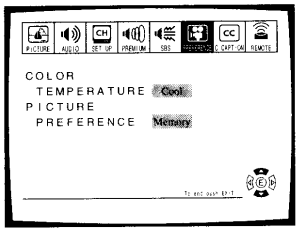
These selections change the appearance of gray and white tones of the picture.

**1** Press **MENU**, then press ▶or ◀ until the PREFERENCE menu appears.




**2** Press ▼ or ▲ until "COLOR TEMPERATURE" is highlighted.

**3** Press ▶ or ◀ to highlight the mode you want.

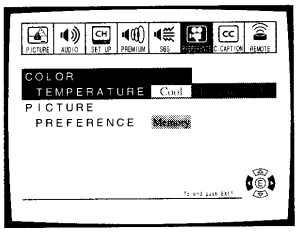



| Mode | Picture quality |
|---|---|
| Cool | Bluish |
| Medium | Neutral |
| Warm | Reddish |

## To select the picture preference function

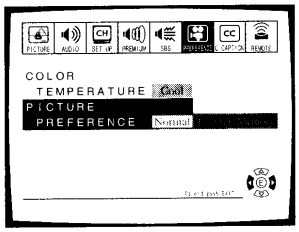
You can select the type of the picture you want from three picture preset modes (Normal, Theater and Memory).

**1** Press **MENU**, then press ▶ or ◀ until the PREFERENCE menu appears.




**2** Press ▲ or ▼ until "PICTURE PREFERENCE" is highlighted.

**3** Press ▶ or ◀ to highlight the mode you want.




| Mode | Picture quality |
|---|---|
| Normal | The picture quality preset at the factory |
| Theater | Movie-like picture quality. |
| Memory | The picture quality you set (First follow page 24.) |

**Note**: If the RESET button is pressed, "Normal" mode will be selected.

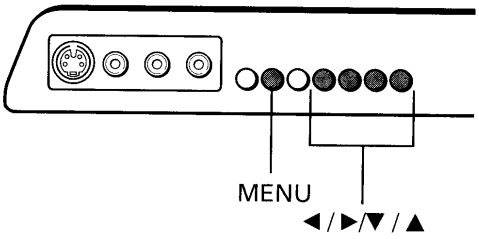


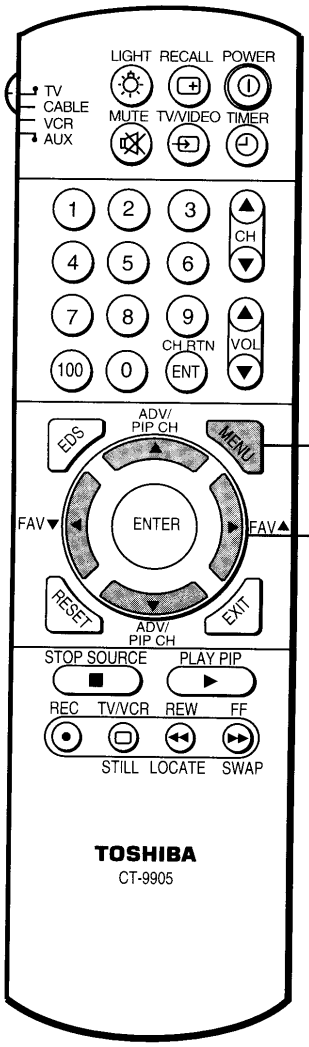


Downloaded from www.Manualslib.com manuals search engine

# Adjusting the Sound

You can adjust the sound quality (BASS, TREBLE and BALANCE) to suit your taste.



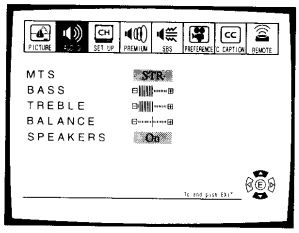

MENU

▲/▼/◄/►

**Note:** There are some other items in the AUDIO menu — MTS and SPEAKERS. To use these functions, see pages 27 and 47.

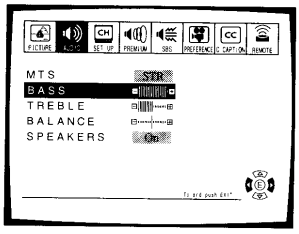
## To adjust the sound quality

**1** Press **MENU**, then press ► or ◄ until the AUDIO menu appears.

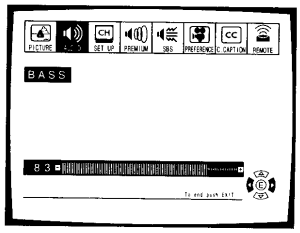



**2** Press ▼ (or ▲) until the item you want to adjust is highlighted.

**Example:** When adjusting "BASS"




**3** Press ► or ◄ to adjust the level.




| Selection | Pressing | |
|---|---|---|
| | ◄ | ► |
| BASS | weaker | stronger |
| TREBLE | weaker | stronger |
| BALANCE | decreases the right channel | decreases the left channel |

To reinforce the bass, see also page 28.

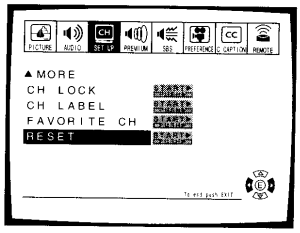
### *RESET function*

**To reset the PICTURE and AUDIO adjustments to the factory-preset level** (maximum CONTRAST and all the adjustments centered)

**1** Press **MENU**, then press ► or ◄ until the SET UP menu appears.

**2** Press ▲ (or ▼) until "RESET" is highlighted.

**3** Press ► or ◄.




The RESET function also performs the following adjustments.

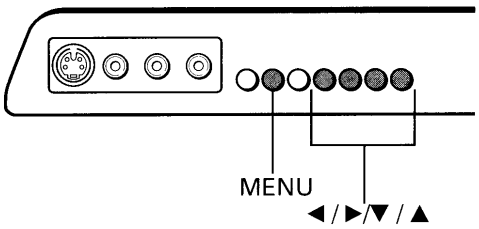
- COLOR TEMPERATURE ..... Cool
- PICTURE PREFERENCE ..... Normal
- NOISE REDUCTION ..... Off

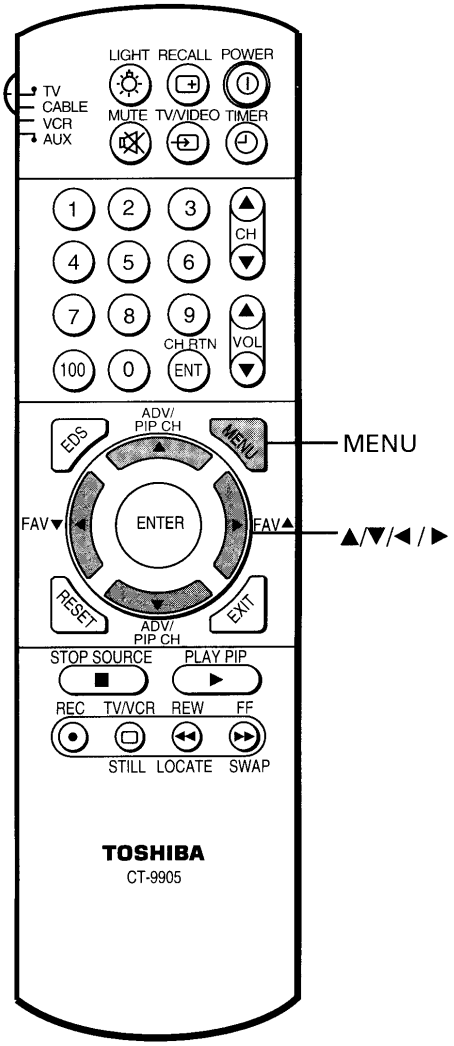


Downloaded from www.Manualslib.com manuals search engine

# Selecting Stereo/SAP Broadcasts

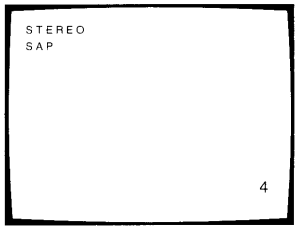
The MTS (Multi-channel TV Sound) feature allows you to improve your TV viewing with high fidelity stereo sound. MTS also provides for an extra channel, SAP (Second Audio Program), used to transmit a second language or other audio information.



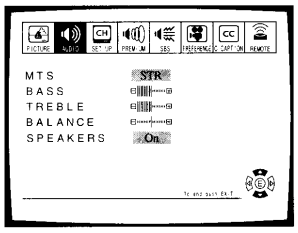




## To listen to stereo sound

**1** When the TV receives a stereo (or SAP) broadcast, the word "STEREO" (or "SAP") is displayed on the screen whenever the TV is turned on, a channel is selected, or the RECALL button is pressed.

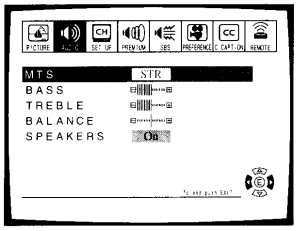



**2** Press **MENU**, then press ► or ◄ until the AUDIO menu appears.




**3** Press ▼ (or ▲) until "MTS" is highlighted.

**4** Press ► or ◄ to highlight "STR".
If a stereo broadcast is received, "STR" will be displayed in yellow.
Normally leave this setting in the stereo mode (STR). Your TV will then automatically reproduce either stereo or monaural sound, whichever is broadcast.

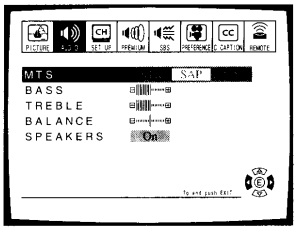



**If the stereo sound is noisy**
If a broadcast signal is not strong enough, and noise-free stereo sound is not available, select "MONO". The noise should be reduced.

## To listen to second language

**1** Follow steps 1 to 3 above.

**2** Press ► or ◄ to highlight "SAP".
You will hear only the second language from the left and right speakers.




**Notes:**
- Be sure you have selected "STR" if broadcast is in stereo.
- The MTS function is not available while in VIDEO mode.

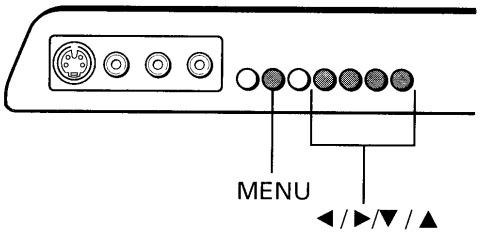


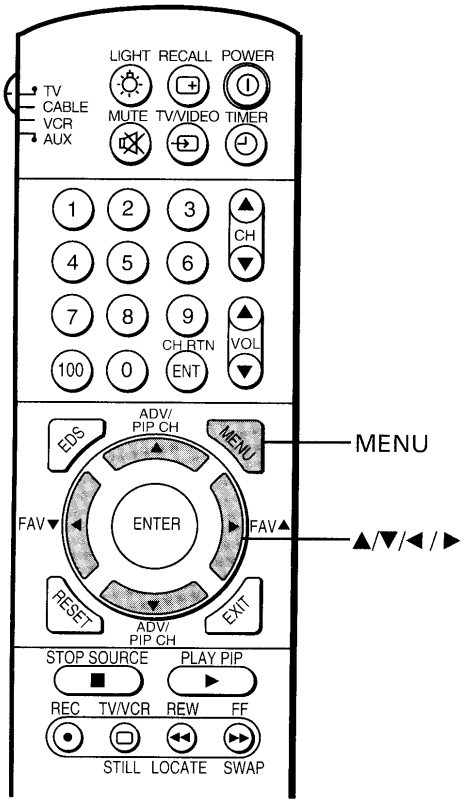


Downloaded from www.Manualslib.com manuals search engine

# Enhancing the Surround Sound Effect

The Surround function expands the audio listening field wider and deeper than you would believe possible from a TV's speakers. This function processes stereo signals from a TV broadcast or VIDEO input.
The Sub-Bass System allows you to inprove bass-performance (even when the sound volume is low).

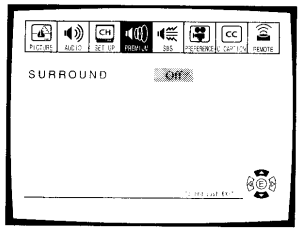



## To activate the Surround function

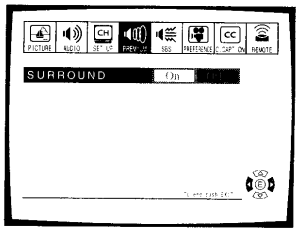
**1** Select the STR (stereo) mode following the steps on the previous page.

**2** Press **MENU**, then press ► or ◄ until the PREMIUM menu appears.




**3** Press ▼ or ▲ until "SURROUND" is highlighted.

**4** Press ► or ◄ to highlight "On".



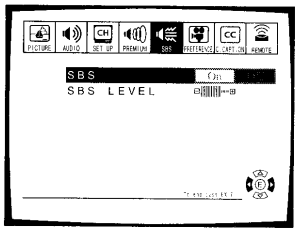

**To deactivate the Surround**
Select "Off" in step 4 above.

## To adjust the level of the Sub-Bass System (SBS)

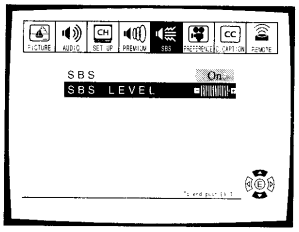
**1** Press **MENU**, then press ► or ◄ until the SBS menu appears.

**2** Press ▼ (or ▲) until "SBS" is highlighted.

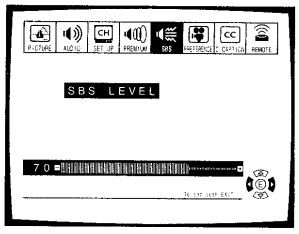
**3** Press ► or ◄ to highlight "On".




**4** Press ▼ (or ▲) until "SBS LEVEL" is highlighted.




**5** Press ► or ◄ to adjust the SBS LEVEL.
To increase the level, press ►.
To decrease the level, press ◄.



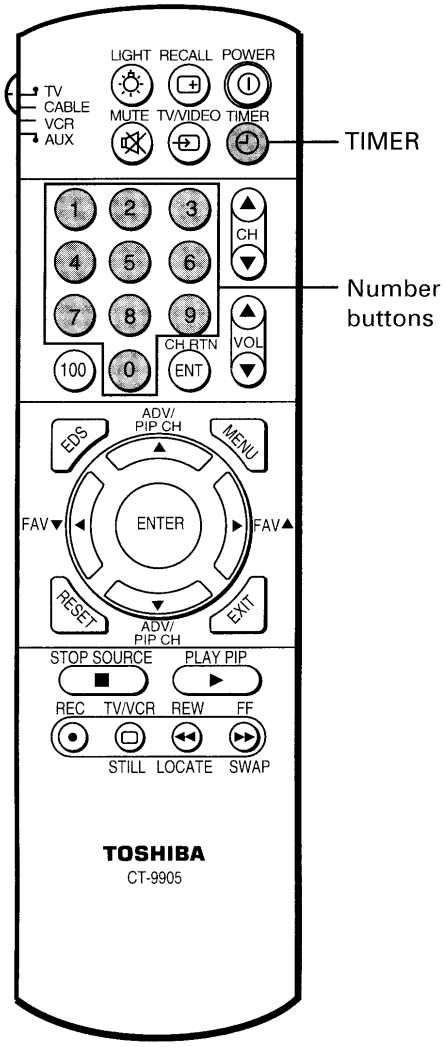

**Note on the Surround function**
Normally you can leave the MTS function set to "STR" and the Surround function set to "On". The TV will automatically produce either Surround stereo or monaural, depending on the broadcast type.

**Note on the Sub-Bass System**
The Sub-Bass System does not operate through the "VARIABLE AUDIO OUT" jacks. (See page 47.) However, the above on-screen displays will appear when the buttons are pressed.



Downloaded from www.Manualslib.com manuals search engine

# Setting the Off-Timer/Clock




**Note on the off-timer:**
To display the time remaining until the shut-off time, press TIMER once. The remaining time will be displayed on the screen. To erase the display, press TIMER twice.

**Note on the clock:**
If the power source for the TV is interrupted (i.e., AC cord unplugged or power failure), the clock will have to be reset. (The time display will show "00:00".)

## To set the off-timer (sleep timer)

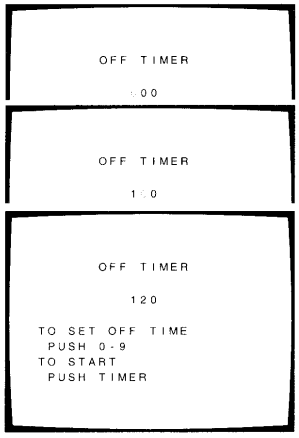
With the off-timer, you can set the TV to turn off automatically after a pre-determined period of time (up to 180 minutes = 3 hours, in 10-minute intervals).

**1** Press **TIMER** once to select the OFF TIMER mode.

**2** Press two **Number** buttons to enter the length of time you want the TV to stay on after each number position starts to blink.

**Example:** 120 minutes
Press 1 and 2.

**3** Press **TIMER** to start the timer.
The display color will change from purple to blue, and then the display will go off.




**To cancel the setting**
Press **POWER** twice, once to turn the TV off and once to turn it on again.

## To set the clock

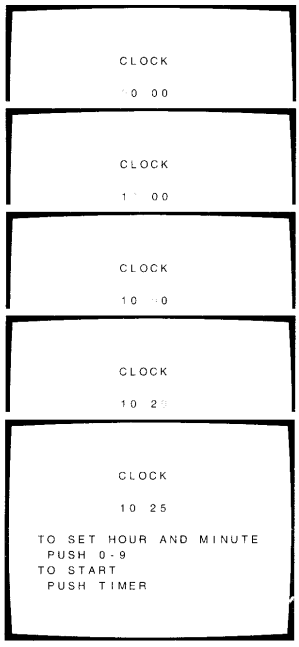
**1** Press **TIMER** twice to select the CLOCK mode.

**2** Press four **Number** buttons to enter the correct time, after each number position starts to blink.

**Example:** To set 10:25 p.m.
Press 1, 0, 2 and 5.

- The clock operates on a 12-hour cycle.

**3** Press **TIMER** to start the clock.
The display color will change from purple to blue, and then the display will go off.




**To monitor the time**
Press **RECALL**.



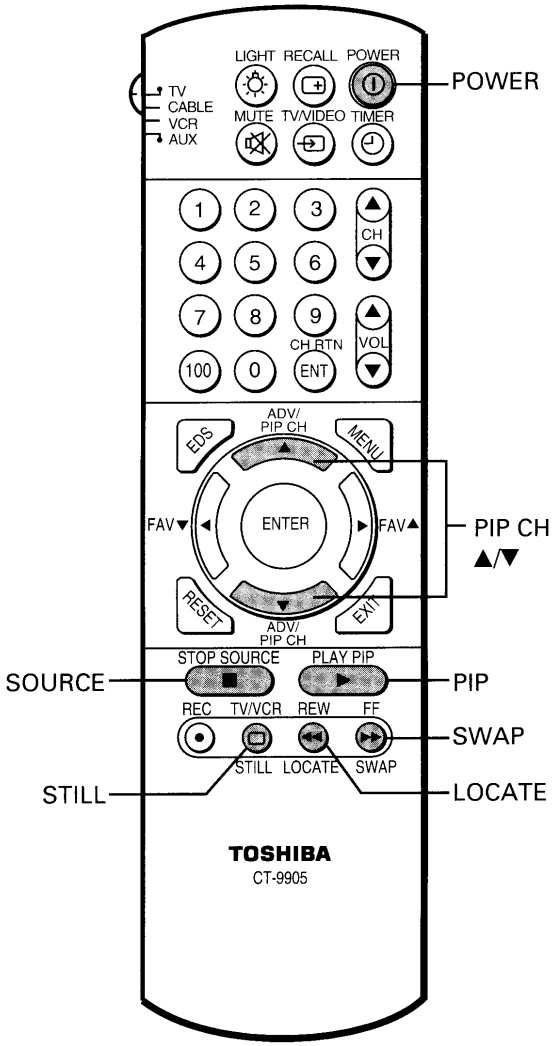


Downloaded from www.Manualslib.com manuals search engine

# Watching Picture-in-Picture

This TV is capable of displaying two pictures simultaneously. This is called the Picture-in-Picture function. A TV broadcast picture, or a picture from external source equipment such as a VCR, can be displayed as a small picture.

**Note:** The signal sources from the ANT-2 terminal cannot be displayed as a small picture.




## To display a small picture

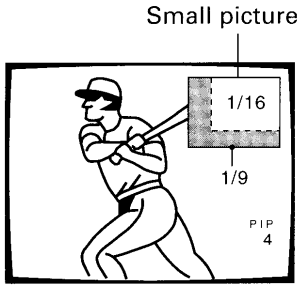
### *To display a TV broadcast picture as a small picture*

**1** Press **POWER** to turn on the TV and select the desired program.

**2** Press **PIP once** to display a small picture. The 1/9 size window picture will appear. If you press the button **twice**: The 1/16 size window picture will appear.

**3** Press **PIP CH ▼/▲** to select the desired program for the small picture.

**4** To turn off the small picture, press **PIP** again.

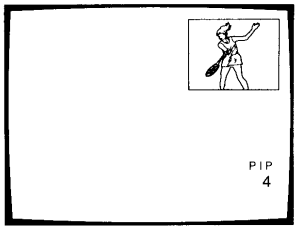



### *To display a picture from an external source as a small picture*

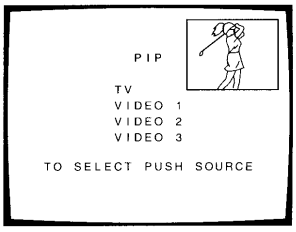
Connect external source equipment for the small picture. (For connection, see pages 43 to 45.)

**1** Press **POWER** to turn on the TV and select the desired program.

**2** Press **PIP** to display a small picture.




**3** Press **SOURCE** repeatedly to select the input source (TV, VIDEO 1, VIDEO 2 or VIDEO 3) for the small picture.
The selected source will be displayed in purple.




**To turn off the small picture, press PIP**
– **Twice**, if you watch the 1/9 size window picture.
– **Once**, if you watch the 1/16 size window picture.

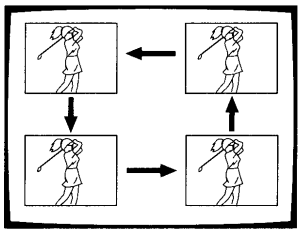


Downloaded from www.Manualslib.com manuals search engine

## To use advanced functions

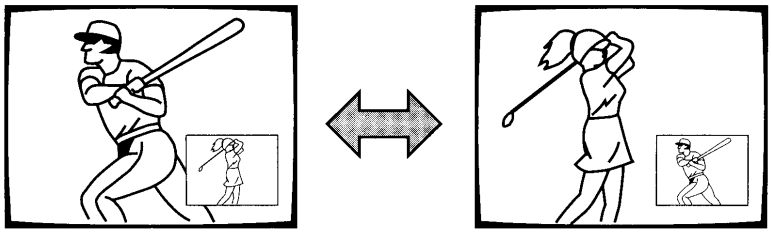
### *To change the position of the small picture*

Press **LOCATE** repeatedly when a small picture is displayed. The display position of the small picture will change in order.



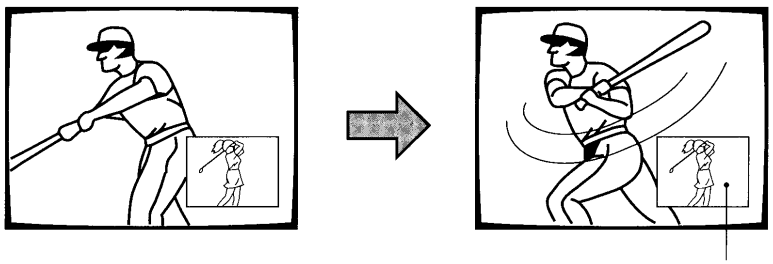
### *To switch the main and small picture*

Press **SWAP** when a small picture is displayed.
The main and small pictures will switch.
To switch them again, press **SWAP** again.



### *To freeze the small picture*

Press **STILL** when a small picture is displayed.
The small picture will become a still picture.
To return to a moving picture, press **STILL** again.




**Note:**
When the color difference input jacks (Cr, Cb) are connected, the PIP function is restricted as follows:
When the main picture is in "TV" mode, "VIDEO 2" mode cannot be selected as a window (PIP) picture. When the main is in "VIDEO 2" mode, the PIP button is not available.

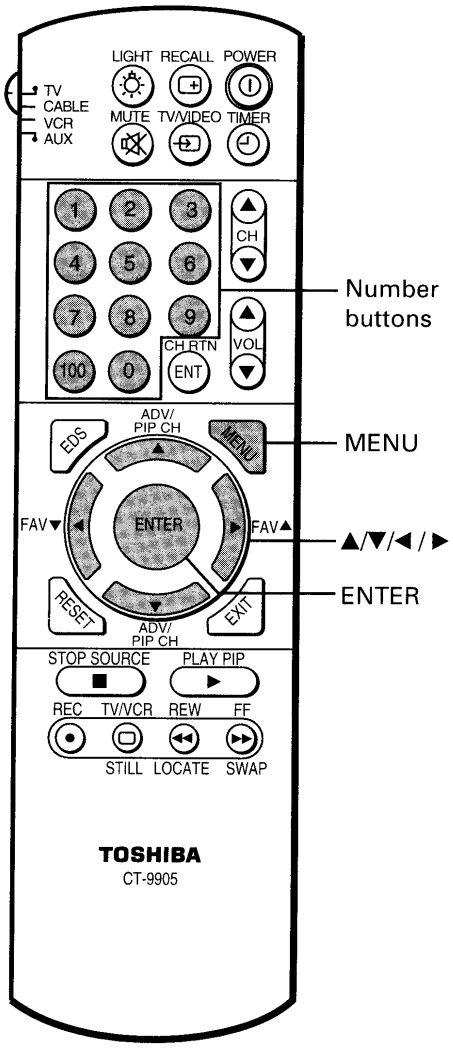




Downloaded from www.Manualslib.com manuals search engine

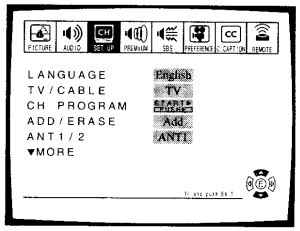
# Locking Channels

With this function you can lock out specific channels by entering your own 4-digit password. The TV will not be able to tune these channels for the next 24 hours, unless you enter the code. This TV has 8 memory spaces total, 4 for TV mode and 4 for CABLE mode.

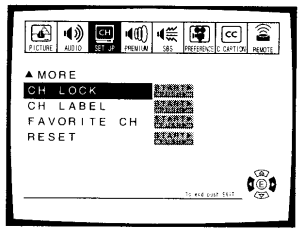



## To lock out channels

**1** Press **MENU**, then press ► or ◄ until the SET UP menu appears.

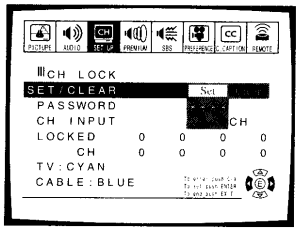



**2** Press ▲ (or ▼) until "CH LOCK" is highlighted.

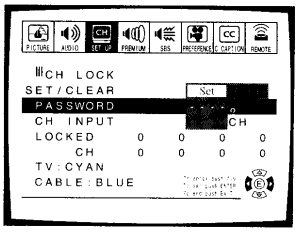



**3** Press ► or ◄ to display the CH LOCK menu.
"SET/CLEAR" will be highlighted.

**4** Press ► or ◄ to select "Set".



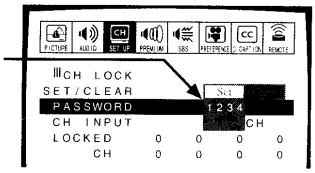

**5** Press ▼ to highlight "PASSWORD".



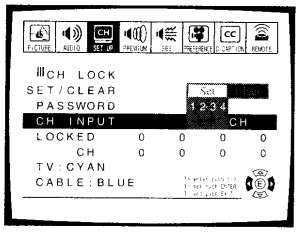

**6** Press **Number** buttons (0 - 9) to enter a 4-digit password.
The numbers you enter will replace the dashes in the display.
**Pick a number that is easy to remember.**

**Example:** To enter "1234"
Press 1, 2, 3, and 4 in order.

**1 - - - ➡1 2 - - ➡1 2 3 - ➡1 2 3 4**



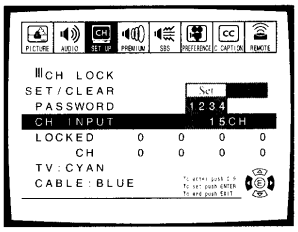

**7** Press ▼ to highlight "CH INPUT".



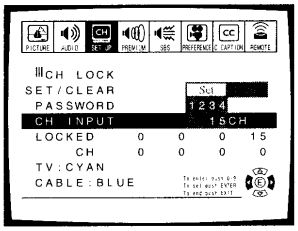



Downloaded from www.Manualslib.com manuals search engine

**8** Press **Number** buttons (0 - 9, and 100) to enter a channel number.




**9** Press **ENTER**.



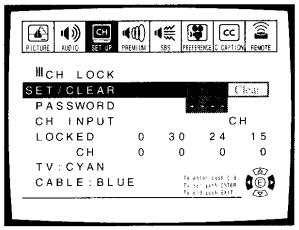

**10** Repeat steps 8 and 9 for other channels.

**Note:** If a different code number is used whenever you lock out a channel, the last one has priority over the preceding ones.

## Unlocking channels

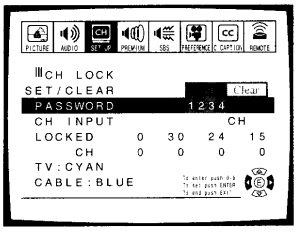
**1** Follow steps 1 to 3 on the previous page.

**2** Press ▶ or ◀ to highlight "Clear".

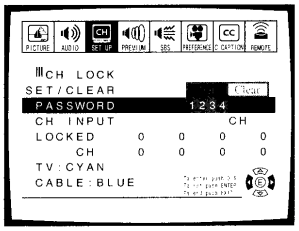



**3** Press ▼ to highlight "PASSWORD".

**4** Press the **Number** buttons (0 - 9) to enter the 4-digit password used to lock out the channels.




**5** Press **ENTER**.




**If a wrong password has been entered**
The message to the right appears. Try to enter the correct code again.

**If you want to know the channels you have locked out**
Call up the CH LOCK menu.

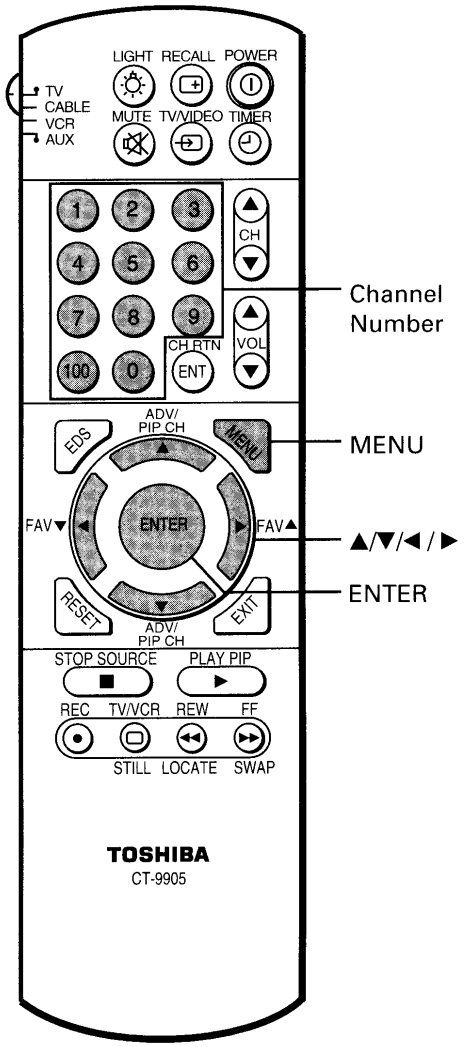




Downloaded from www.Manualslib.com manuals search engine

# Labeling Channels

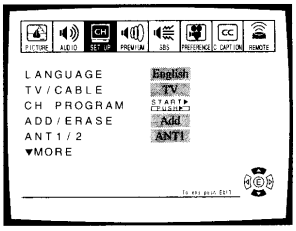
This feature allows you to enter a 4 letter channel identifier of your choice that will appear over the channel number display. The labeling can be anything you want (for example the station call letters).



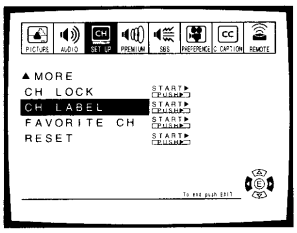

## To program the channel labels

**Example:** To assign "ABCD" to channel 4.

**1** Press **MENU**, then press ▶ or ◀ until the SET UP menu appears.

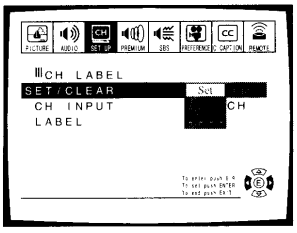



**2** Press ▲ ( or ▼) to highlight "CH LABEL".

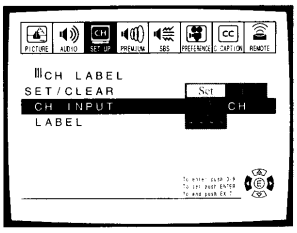



**3** Press ▶ or ◀ to display the CH LABEL menu.
"SET/CLEAR" will be highlighted.

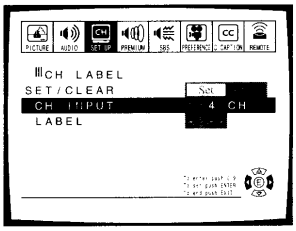
**4** Press ▶ or ◀ to highlight "Set".



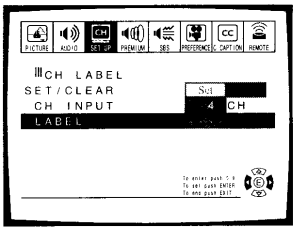

**5** Press ▼ to highlight "CH INPUT".




**6** Now select a channel you want to label. In this example, press **4** to select channel 4.



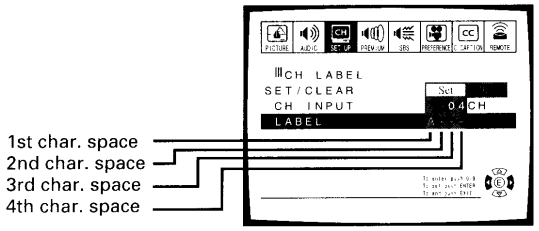

**7** Press ▼ to highlight "LABEL".



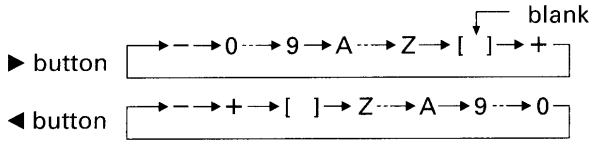



Downloaded from www.Manualslib.com manuals search engine

**8** Now assign the label (in this example, "ABCD") to the channel.
Press ▶ or ◀ to put a character "A" in the 1st character space.
Press the button until the character you want appears on the screen.

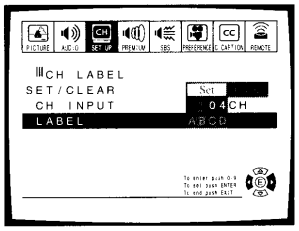



Letters of the alphabet, numbers and other graphic symbols are available for labeling.
Each time you press the ▶ or ◀ button, the character to be displayed will change in the following order.




**9** Press **ENTER**.

**10** Repeat steps 8 and 9 to enter the 2nd, 3rd and 4th characters "B", "C", "D".



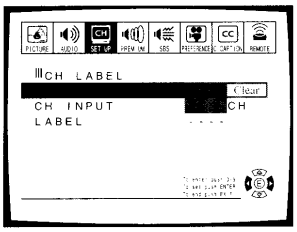

**11** Repeat steps 6 to 10 for other channels.
You will be able to assign up to 32 labels.

The label will appear when you turn the TV on, select a channel, or press the RECALL button.

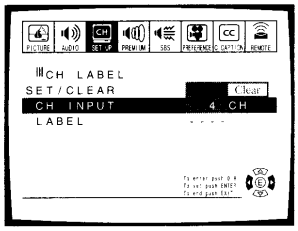
## To erase channel labels

**1** Follow steps 1 to 3 on the previous page.

**2** Press ▶ or ◀ to highlight "Clear".

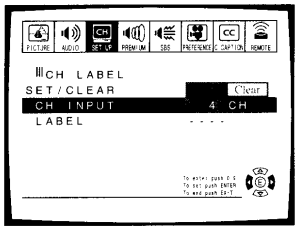



**3** Press ▼ to highlight "CH INPUT".

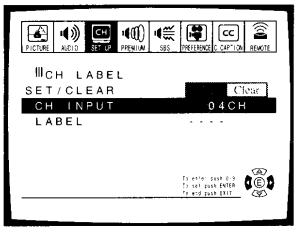



**4** Select the channel having the label you want to erase.

**Example:** To erase the label of channel 4.




**5** Press **ENTER**.




**6** Repeat steps 4 and 5 for other channel.

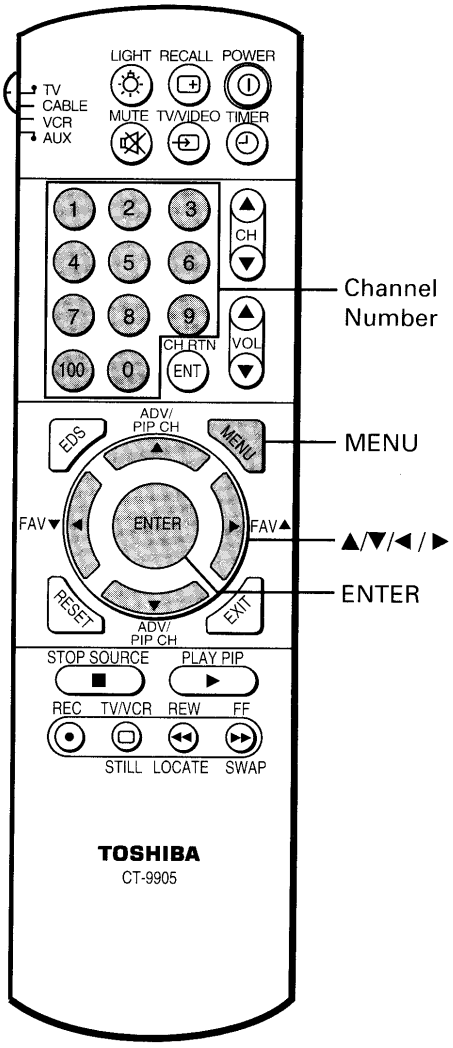




Downloaded from www.Manualslib.com manuals search engine

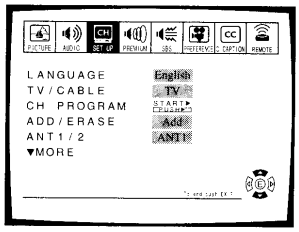
# Programming Your Favorite Channels

The Favorite Channel Programming feature allows you to program up to 12 of your favorite channels.
Once programmed, you can use the FAV ▼/▲ buttons on the Remote Control to scan through only your favorite channels, skipping other channels you do not normally view.
You can use the CHANNEL ▲/▼ buttons to scan through all the channels you programmed in the TV's memory.

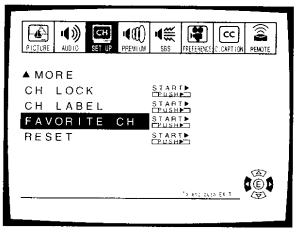



## To program your favorite channels

**1** Press **MENU**, then press ▶ or ◀ until the SET UP menu appears.

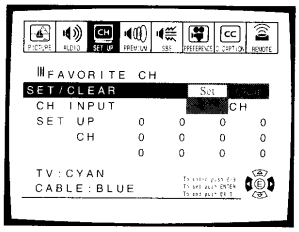



**2** Press ▲ ( or ▼) until "FAVORITE CH" is highlighted.



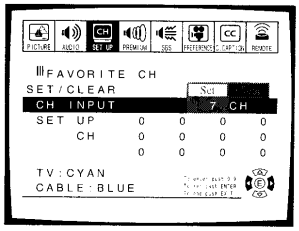

**3** Press ▶ or ◀ to display the FAVORITE CH menu.
"SET/CLEAR" will be highlighted.

**4** Press ▶ or ◀ to select "Set".

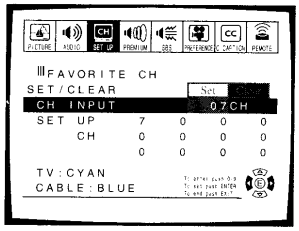



**5** Press ▼ to highlight "CH INPUT".

**6** Press **Channel Number** buttons (0 - 9, and 100) to enter a channel number.




**7** Press **ENTER**.




**8** Repeat steps 6 and 7 for other channels.



Downloaded from www.Manualslib.com manuals search engine

## To select your favorite channels

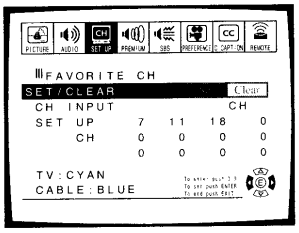
To select your favorite channels you have programmed, use the **FAV ▼/▲** buttons on the Remote Control instead of using the CHANNEL ▲ / ▼ buttons.

**Note:** The FAV ▼/▲ buttons cannot function if you have not programmed your favorite channels.

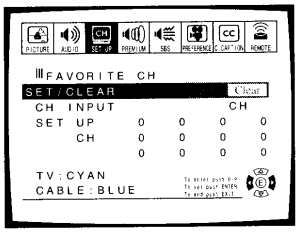
## To clear your favorite channels

**1** Follow steps 1 to 3 on the previous page.

**2** Press ▶ or ◀ to select "Clear".




**3** Press **ENTER**.
All the favorite channels you have programmed are erased.

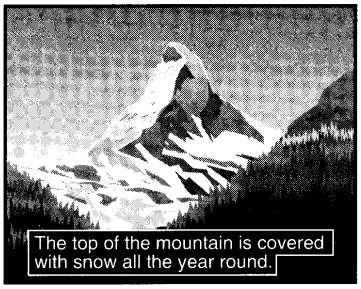


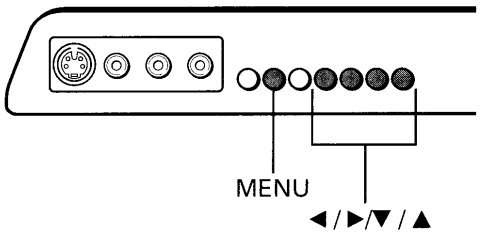


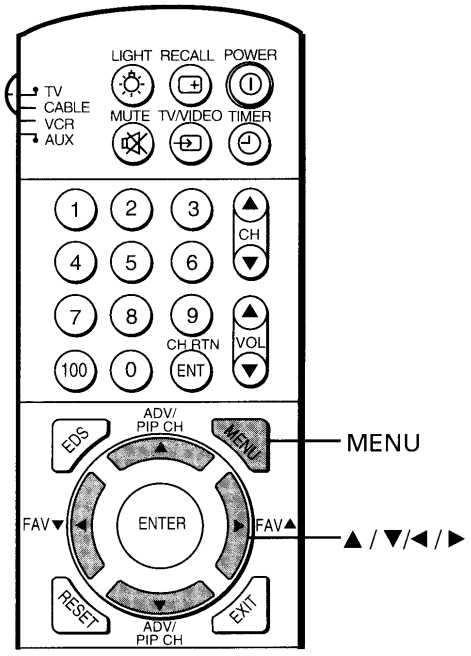



Downloaded from www.Manualslib.com manuals search engine

# Using Closed-Captioned Function



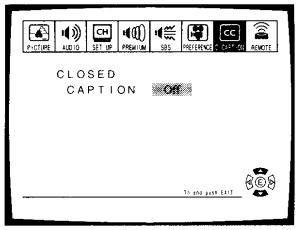




## To view captions

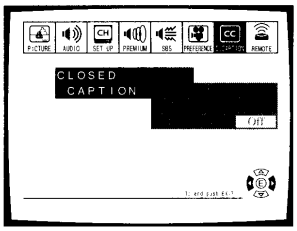
Closed-captioning is a printed version of the dialogue, narration, and/or sound effects of a TV program.
Captions will appear at either the top or bottom of the screen during captioned broadcasts as shown.
Captioning is especially helpful for hearing impaired individuals.

**1** Select the desired program.

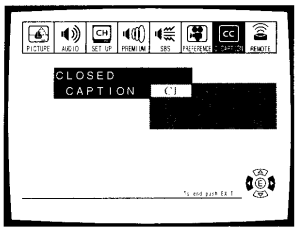
**2** Press **MENU**, then press ► or ◄ until the CLOSED CAPTION menu appears.




**3** Press ▼ or ▲ to highlight "CLOSED CAPTION".




**4** Press ► or ◄ to select the caption you want— C 1 (Caption 1), C 2 (Caption 2), C 3 (Caption 3), or C 4 (Caption 3).
Select "C 1 (Caption 1)" for translation of the primary language in your area.




**To deactivate this feature**
Select "Off" in step 4 above.

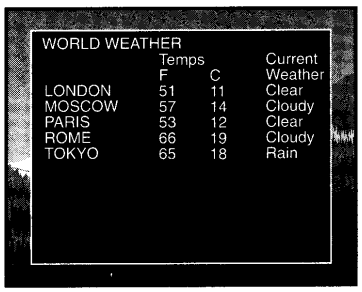
**Note:**
A closed-captioned signal may not be decoded in the following situations.
- When a video tape has been dubbed.
- When the signal reception is weak.
- When the signal reception is non-standard.



Downloaded from www.Manualslib.com manuals search engine

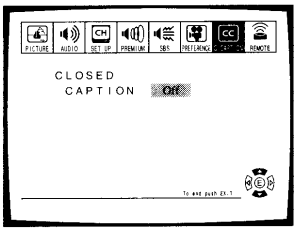
## To view text

Text is information that is presented using the full television screen. It is usually not related to the program.
For example, it could be a listing of the closed-captioned programs, news, weather information or stock market reports.

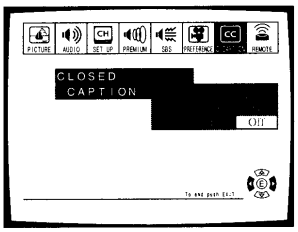



**1** Select the desired program.

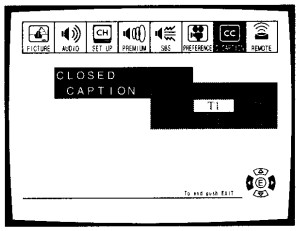
**2** Press **MENU**, then press ▶ or ◀ until the CLOSED CAPTION menu appears.




**3** Press ▼ or ▲ to highlight "CLOSED CAPTION".




**4** Press ▶ or ◀ to select the text you want — T 1 (Text 1), T 2 (Text 2), T 3 (Text 3), or T 4 (Text 4).




**To deactivate this feature**
Select "Off" in step 4 above.

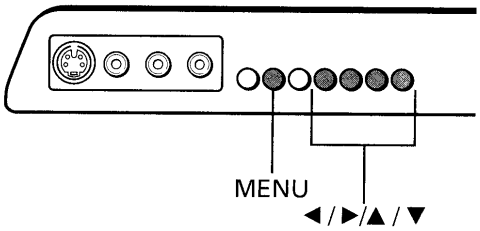
**Note:** If you select a closed-captioned channel and the text mode, the text screen always appears.
However, text characters are not displayed when no signal is aired.

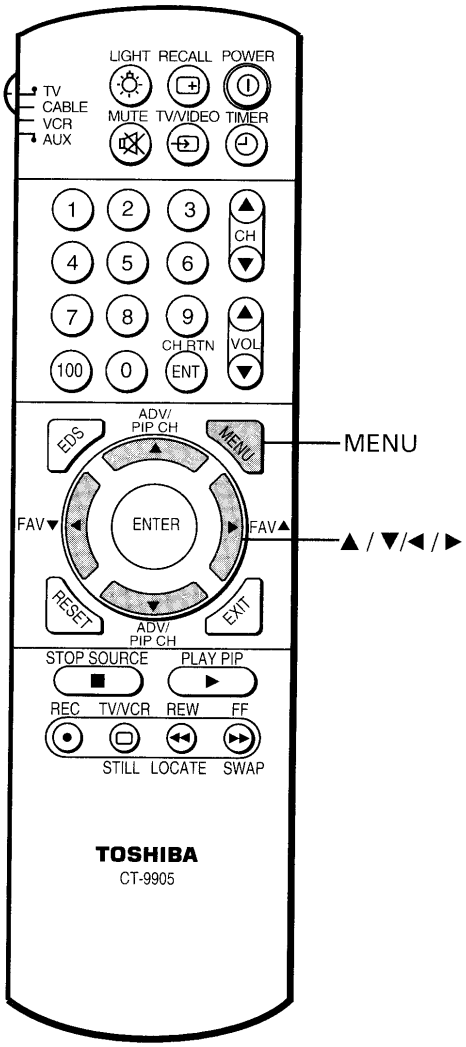




Downloaded from www.Manualslib.com manuals search engine

# Activating Flesh Tone / Noise Reduction Functions

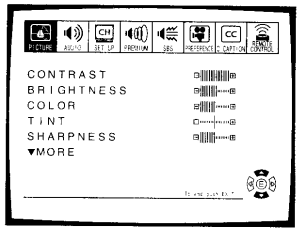



## To activate flesh tone function

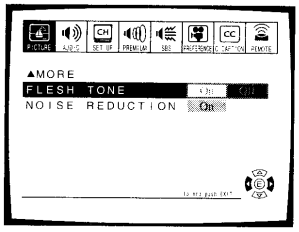
This function allows you to obtain natural flesh tone by correcting the reference of tint between TV stations.

**1** Press **MENU**, then press ► or ◄ to display the PICTURE menu on the screen.




**2** Press ▲ (or ▼) until "FLESH TONE" is highlighted.

**3** Press ► or ◄ to highlight "On".

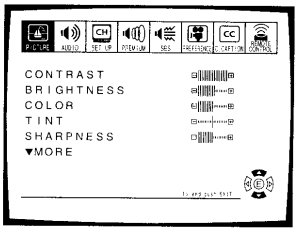



**To deactivate this function**
Select "Off" in step 3 above.

## To reduce picture noise

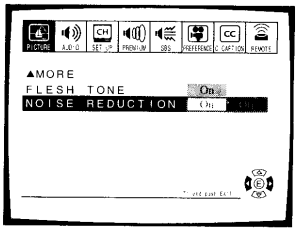
This function allows you to reduce visible interference in your TV picture. This is useful when receiving a broadcast with a weak signal or playing back a video tape or disc damaged by repeated use.

**1** Press **MENU**, then press ► or ◄ to display the PICTURE menu on the screen.




**2** Press ▲ (or ▼) until "NOISE REDUCTION" is highlighted.

**3** Press ► or ◄ to highlight "On".



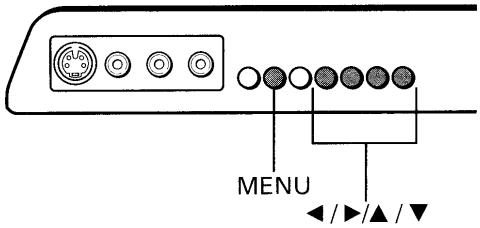

**To deactivate this function**
Select "Off" in step 3 above.



Downloaded from www.Manualslib.com manuals search engine

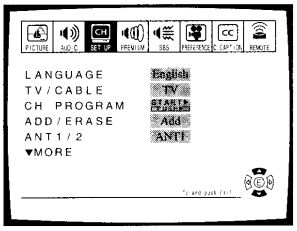
# Changing On-Screen Display Language

You can choose from three different languages (English, French and Spanish) for the on-screen displays (adjustment menus, and messages).

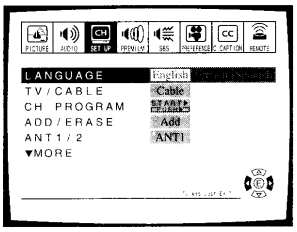



## To select a language

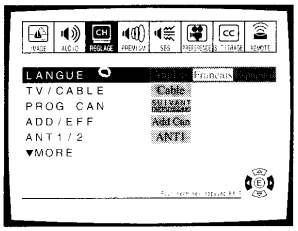
**1** Press **MENU**, then press ► or ◄ button until the SET UP menu appears.

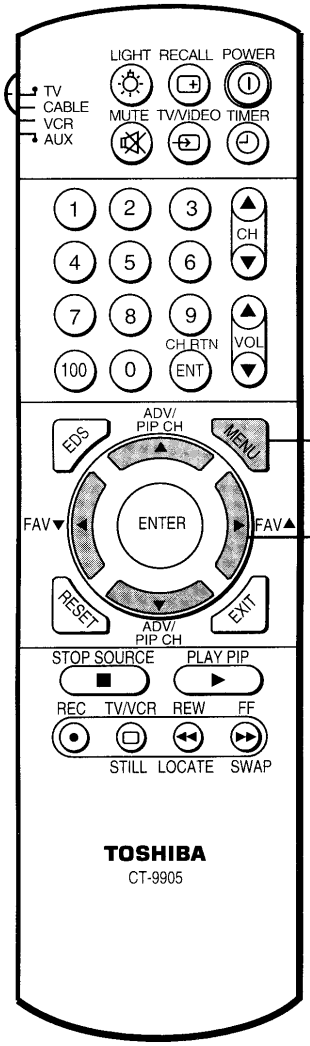



**2** Press ▼ ( or ▲) to highlight "LANGUAGE".




**3** Press ► or ◄ until the desired language is highlighted.



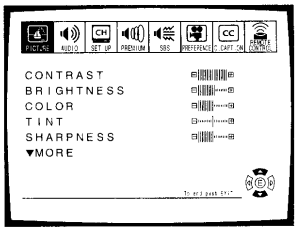




MENU

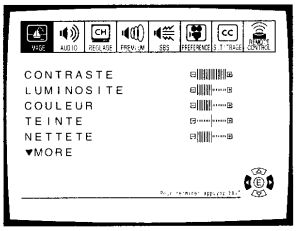
▲/▼/◄/►

**Example:** PICTURE menu display

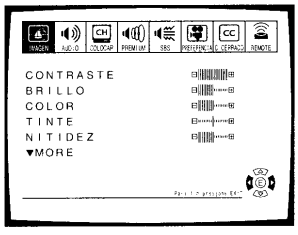
"English"




"French"




"Spanish"



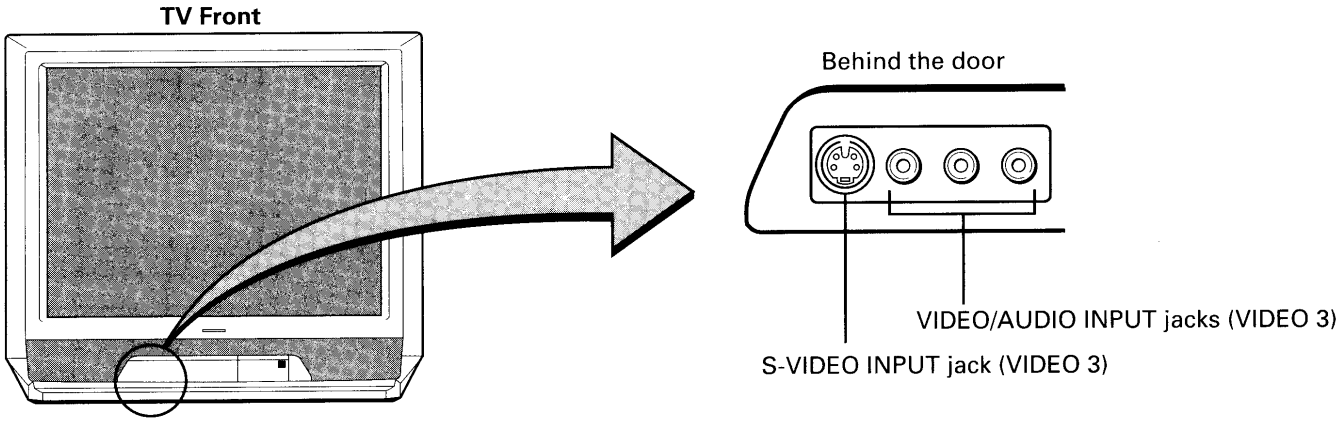


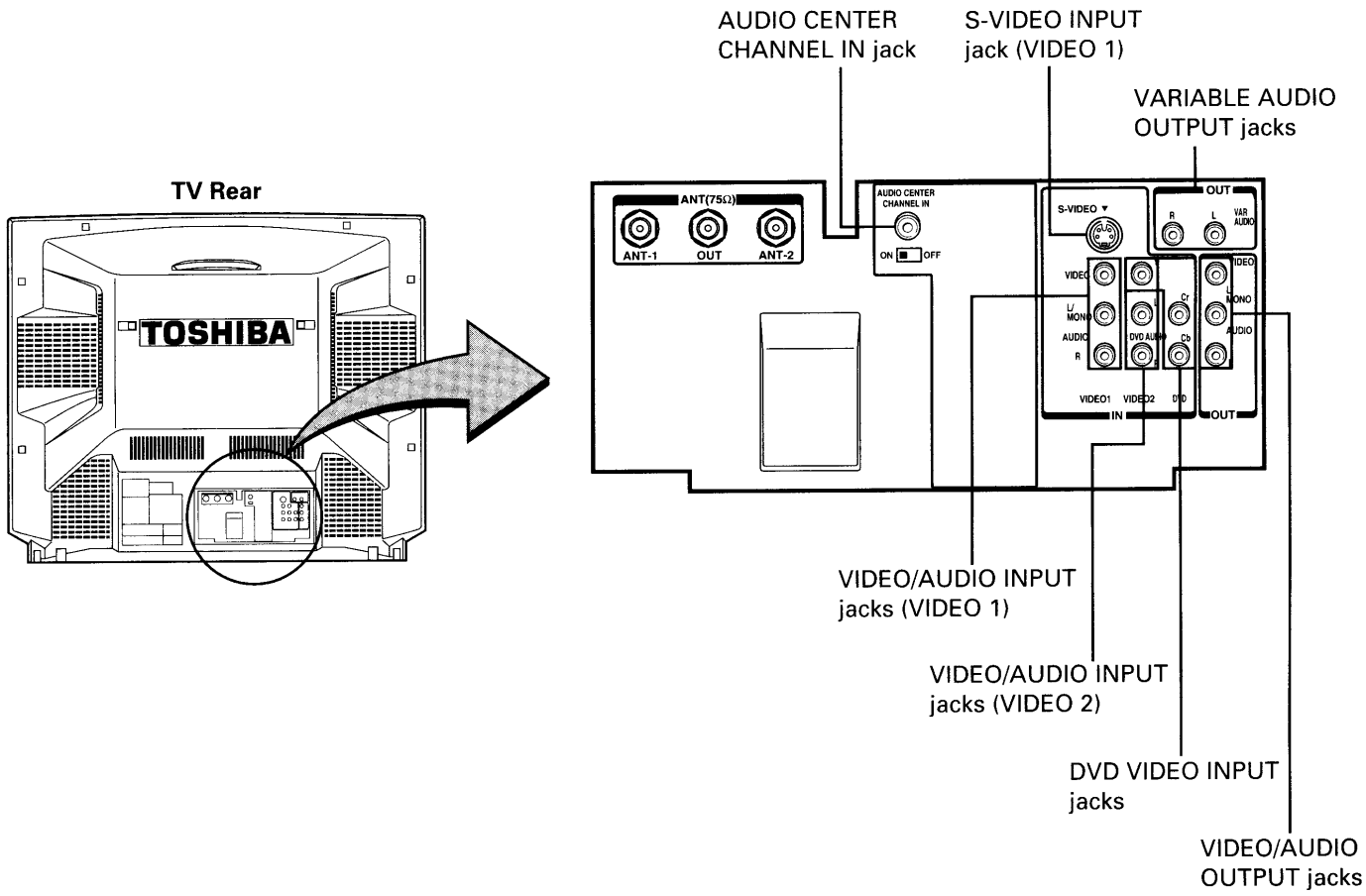



Downloaded from www.Manualslib.com manuals search engine

# Monitor Panel

- Refer also to the owner's manual of the equipment to be connected.
- When connecting other equipment to the TV, first turn off all main power switches.



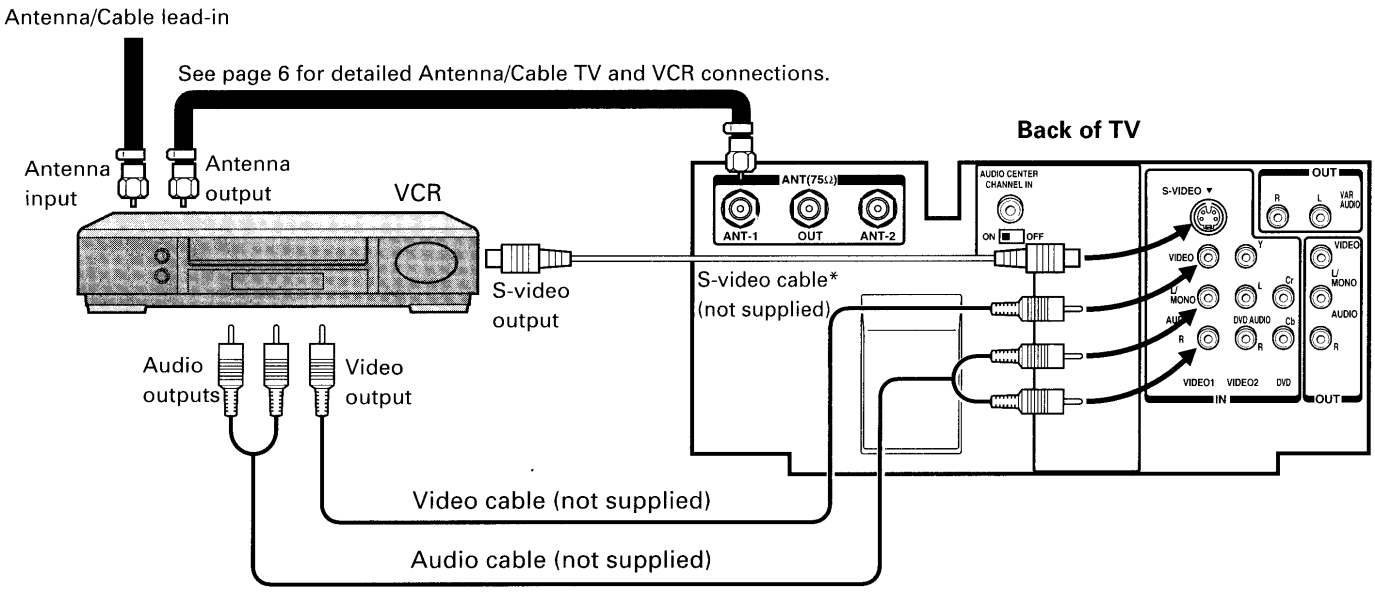





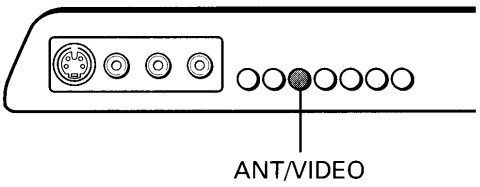

Downloaded from www.Manualslib.com manuals search engine

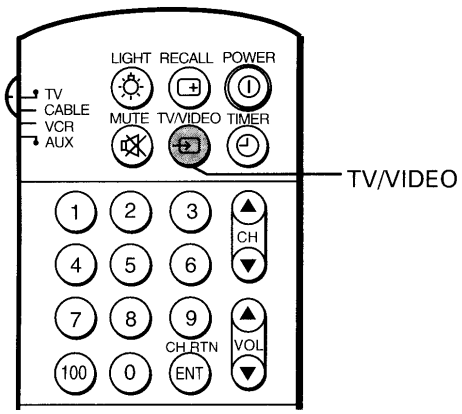
# Connecting a VCR

Connect the VIDEO 1 IN jacks on the rear of the TV to the video/audio output jacks of a VCR, (Laserdisc Player, Video Camera etc.) for playback of video material. The S-VIDEO jack is provided for direct S-video connection from an S-VHS VCR.




* When the S-video cable is connected to the S-VIDEO IN jack, the VIDEO plug should not be connected.



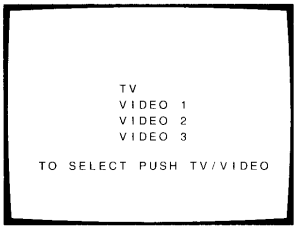




## To select the video input source

To operate your TV and video equipment properly, refer to the instructions supplied with the video equipment.

**1** Turn the TV and VCR on.

**2** Press **TV/VIDEO** on the Remote Control (or **ANT/VIDEO** on the TV) to select the appropriate source.
Each time you press the button, "TV", "VIDEO 1", "VIDEO 2" or "VIDEO 3" will be selected in this order as the source to watch.




**3** Operate your VCR normally.

**Notes:**

- The VIDEO 2 IN jacks can also be used for connecting a second piece of video equipment with video/audio outputs. To view video from equipment connected to the VIDEO 2 IN jacks, select "VIDEO 2".
- If you connect a monaural VCR, connect the audio output of the VCR to the L/MONO jack of the VIDEO 1/2/3 IN jacks on the TV.

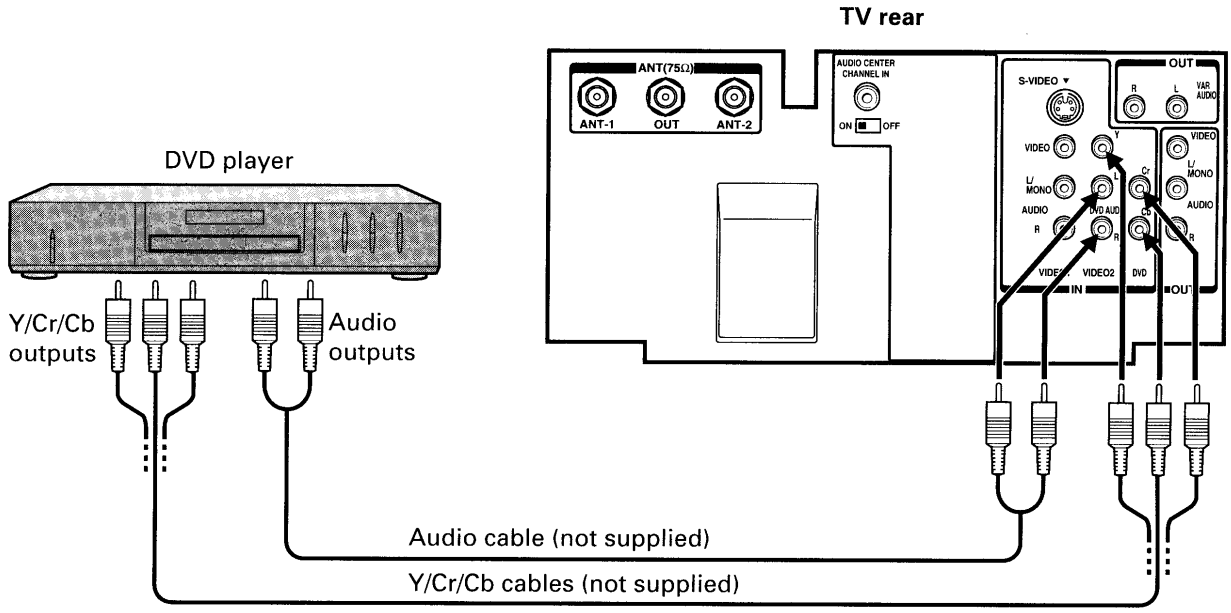




Downloaded from www.Manualslib.com manuals search engine

# Connecting a DVD Player with ColorStream™(Color Difference) VIDEO OUTPUT

This connection allows you to view pictures from a DVD player, an advanced video/audio device.




## To select the video input source

1 Turn on the TV and the DVD player.

2 Press **TV/VIDEO** on the Remote Control (or **ANT/VIDEO** on the TV) to select "VIDEO 2".

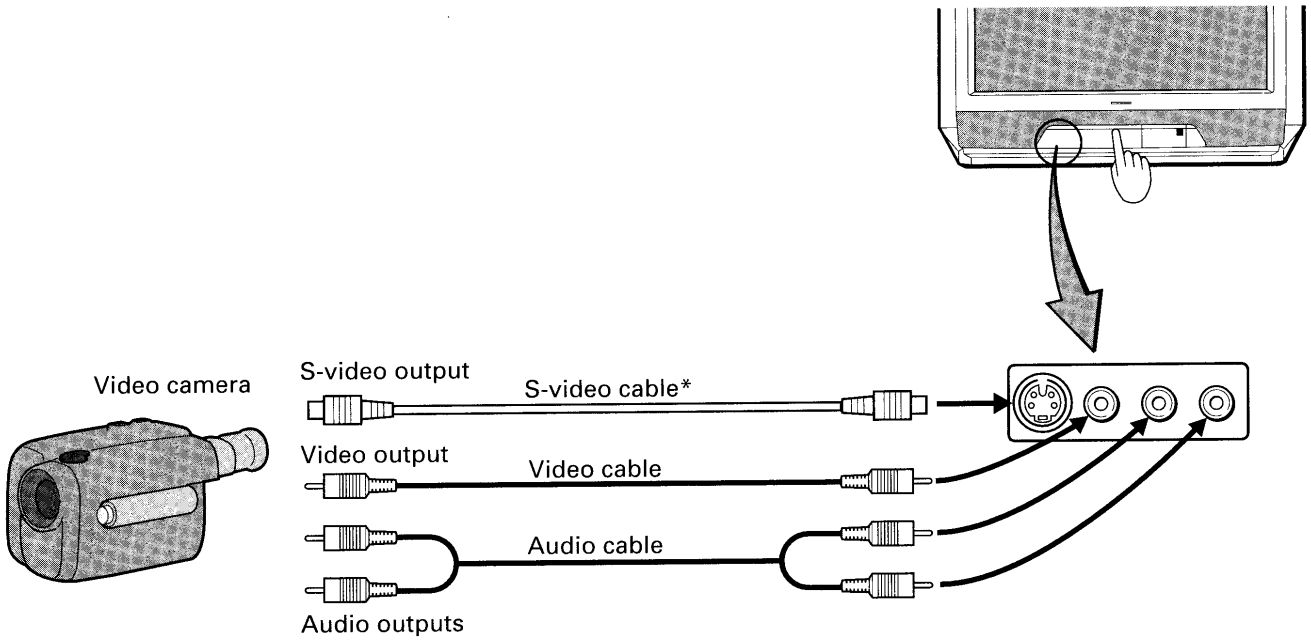
3 Operate your DVD player normally.



Downloaded from www.Manualslib.com manuals search engine

# Connecting a Video Camera

This connection allows you to play back tapes in the video camera and watch them on the TV.
– **If you have a video camera with an S-video jack,** connect the S-video cable to the S-VIDEO jack of the VIDEO 3 IN jacks.
– **If you have a standard video camera,** connect the video cable to the VIDEO jack of the VIDEO 3 IN jacks.
With either video cable connection, connect an audio cable.




## To select the video input source

To operate your TV and video camera properly, refer to the instructions supplied with the connected video camera.

**1** Turn the TV and the video camera on.

**2** Press **TV/VIDEO** on the Remote Control (or **ANT/ VIDEO** on the TV) to select "VIDEO 3".

**3** Operate your video camera normally.

**Notes:**
- When the S-video cable (*) is connected to the S-VIDEO IN jack, the video plug should not be connected.
- If you connect a monaural video camera, connect the audio output of the video camera to the L/MONO jack of the VIDEO 3 IN jacks.

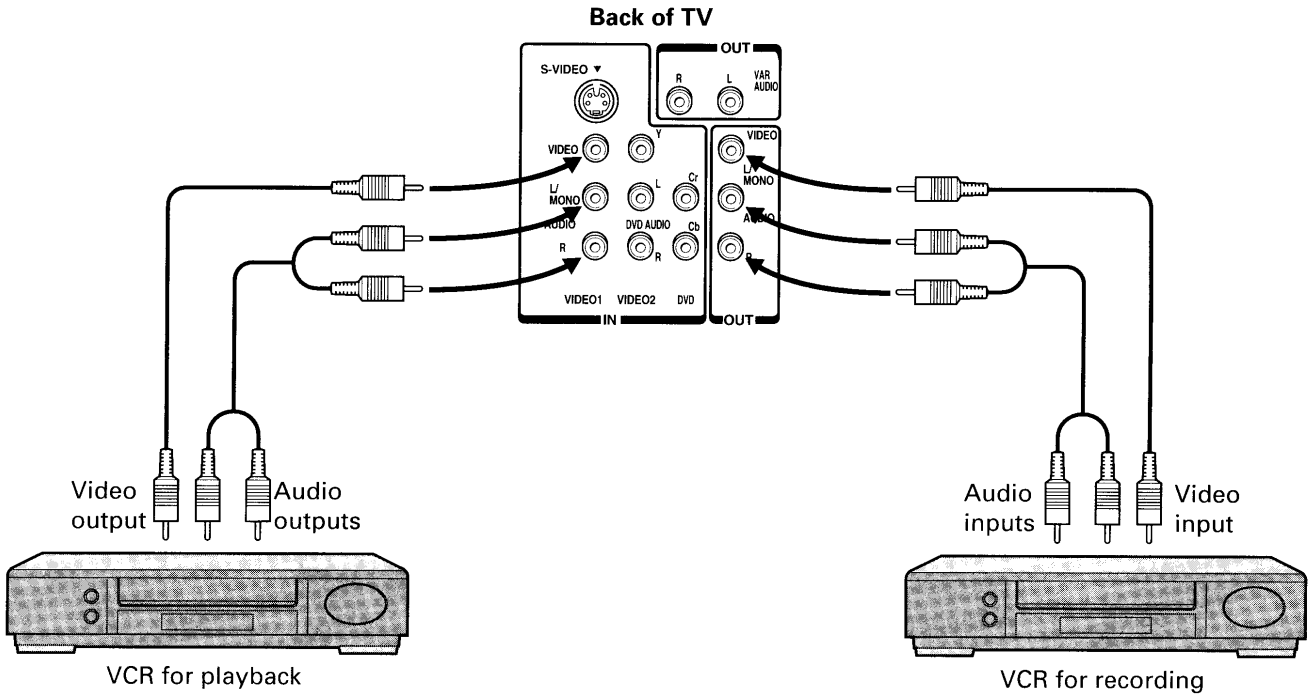




Downloaded from www.Manualslib.com manuals search engine

# Dubbing/Editing Video Tapes Using 2 VCR's

To dub or edit your own video tapes between one VCR and another, connect the VCR that will play to the input jacks (VIDEO 1, VIDEO 2 or VIDEO 3) on the TV. Then connect the output jacks on the back of the TV to the input jacks on the recording VCR.
**Note:** Do not connect one VCR to the output and input jacks on the back of the TV at the same time.




## To monitor dubbing/editing

1 Turn the TV and both VCR's on.

2 Press **TV/VIDEO** on the Remote Control (or **ANT/VIDEO** on the TV) to select "VIDEO 1" (or "VIDEO 2", "VIDEO 3" depending on which input jacks are used for connecting the VCR for playback).

3 Set the VCR for recording to record mode and the VCR for playback to playback mode.

4 You can view the video tape from the VCR for playback on the TV screen while dubbing it with the VCR for recording.

**CAUTION:**
The unauthorized recording of television programs, video tapes and other materials may infringe upon the provisions of copyright laws.

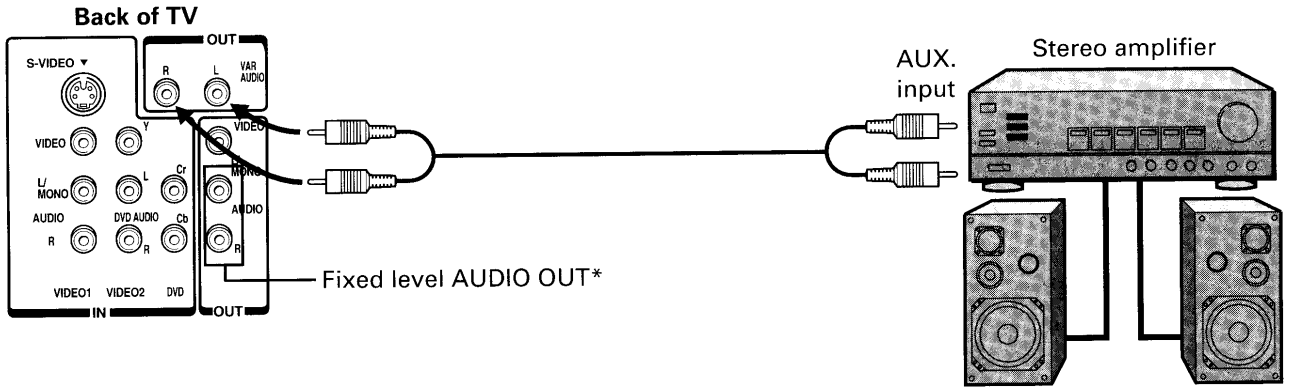
**Notes:**
- The input switch of a VCR is normally in the TV position.
  Change the input switch of the recording VCR to the external input position such as LINE or CAMERA when using the video/audio inputs of the VCR as above.
  Some VCR's automatically switch when the cables are plugged into the video/audio inputs.
- The PIP picture cannot be output from the VIDEO OUT jack.



Downloaded from www.Manualslib.com manuals search engine

# Connecting an Audio Amplifier

Connect the VAR (variable) AUDIO OUT jacks to the auxiliary input jacks on a stereo amplifier. You can control the audio level using the TV's Remote Control.




**Note:** The "fixed level" audio signal through the AUDIO out (*) jacks is also ideal for connecting an audio cassette recorder (or amplifier) to record sound from the TV. This constant audio signal is not affected by pressing the VOLUME ▼/▲ buttons on the TV or the TV's Remote Control.

## Preparing for use

1 Turn the TV and the stereo amplifier on.

2 Adjust the VOLUME ▼/▲ buttons on the TV for a moderate listening level.

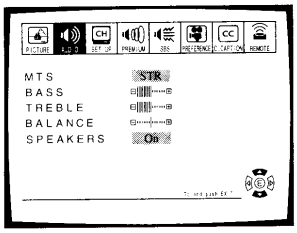
3 Disconnect the built-in speakers following the instructions to the right.

4 Adjust the volume control on the stereo amplifier for a moderate listening level.

5 Control of the sound can now be done using the VOLUME ▼/▲ and MUTE buttons on the TV's Remote Control, and using the AUDIO menu.

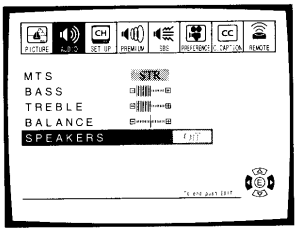
## To disconnect the built-in speakers

1 Press **MENU**, then press ▶ or ◀ until the AUDIO menu appears.




2 Press ▼ or ▲ until "SPEAKERS" is highlighted.

3 Press ▶ or ◀ to highlight "Off".




**To use the built-in speakers again**
Select "On" in step 3 above.





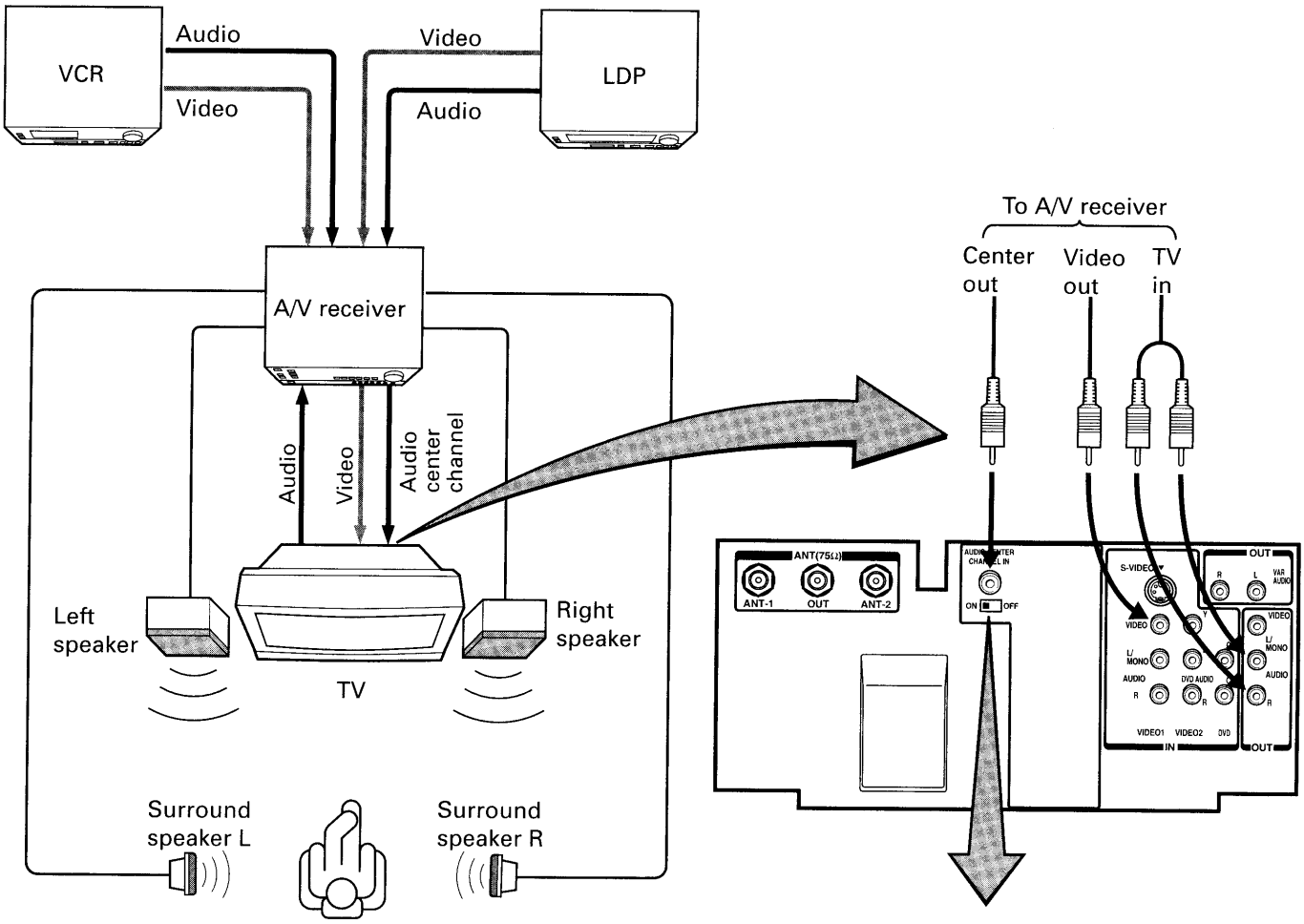
Downloaded from www.Manualslib.com manuals search engine

# Using the TV's Speakers as Center Channel Speakers

If you are using a system which delivers Dolby Pro-Logic* surround sound, you will probably want to use the TV speakers as center channel speakers.
A center channel speaker adds to the realism of a surround sound system such as Dolby Pro-Logic.

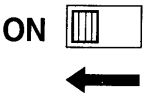
**Note:** Make sure that the TV is turned off, before connecting or disconnecting an audio cable to the CENTER CHANNEL IN jack.

## Connection example — connecting an A/V receiver




**Notes**

- Refer to the instructions furnished with the connected equipment.
- "Dolby Pro-Logic"(*) is a trademark of Dolby Laboratories Licensing Corporation.




When the AUDIO CENTER CHANNEL ON/OFF switch is in the "ON" position, the TV speakers will function only as the center channel speakers.
Adjust the volume for center channel speakers with the center level control on the A/V receiver.
If you use the TV speakers as normal speakers, set this switch to the "OFF" position.



Downloaded from www.Manualslib.com manuals search engine

# Cleaning and Care

**WARNING: TV sets use High Voltage. Do not try to remove the cabinet back. Refer servicing to qualified service personnel.**

- To clean the TV screen:
  1. First remove the plug from the power outlet to avoid possible shock hazard.
  2. Use a clean cellulose sponge or chamois cloth dampened with a solution of mild detergent and warm water to clean TV screen and trim. Do not use too much water on the TV screen. Water spills into the cabinet and may cause damage to the TV. Avoid excess water.
  3. Remove any extra moisture with the same cloth or a dry one.

- To maintain the finish and appearance of the cabinet, polish it from time to time with a quality furniture polish.

**Caution:** Never use strong solvents such as thinner, benzene or other chemicals on or near cabinet, as they might damage the finish of the cabinet.

# Specifications

| | |
|---|---|
| TELEVISION SYSTEM | NTSC standard |
| CHANNEL COVERAGE | VHF: 2 through 13<br>UHF: 14 through 69<br>Cable TV: mid band (A-8 through A-1, A through I)<br>super band (J through W)<br>hyper band (AA through ZZ, AAA, BBB)<br>ultra band (65 through 94, 100 through 125) |
| POWER SOURCE | 120V AC, 60Hz |
| POWER CONSUMPTION | 126W (average) |
| AUDIO POWER | 10W + 10W |
| SPEAKER TYPE | Two 2-3/4 x 5-1/8 inches (70 x 130mm) |
| VIDEO/AUDIO TERMINALS | S-VIDEO INPUT (VIDEO 1/VIDEO 3)<br>Y-INPUT: 1V(p-p), 75 ohm, negative sync.<br>C-INPUT: 0.286V(p-p) (burst signal), 75 ohm<br>VIDEO 1/VIDEO 2/VIDEO 3 INPUT<br>VIDEO: 1V(p-p), 75 ohm, negative sync.<br>AUDIO: 150mV(rms) (30% modulation equivalent, 47k ohm)<br>ColorStream™ (Color Difference) VIDEO IINPUT<br>Y-INPUT: 1V (p-p), 75 ohm<br>Cr-INPUT: 0.7 V (p-p), 75 ohm<br>Cb-INPUT: 0.7 (p-p), 75 ohm<br>VIDEO/AUDIO OUTPUT<br>VIDEO: 1V(p-p), 75 ohm, negative sync.<br>AUDIO: 150mV(rms) (30% modulation equivalent, 4.7k ohm)<br>VARIABLE: AUDIO OUTPUT<br>0-350mV(rms) (30% modulation equivalent, 4.7k ohm)<br>AUDIO CENTER CHANNEL INPUT<br>1V(rms) (30% modulation equivalent, 10k ohm) |
| DIMENSIONS | Width ..... 36-39/64 inches (930mm)<br>Height .... 30-47/64 inches (780.5mm)<br>Depth ..... 25-19/32 inches (650mm) |
| MASS | 176.4lbs (80.0kg) |
| SUPPLIED ACCESORIES | Remote Control with 2 "AA" size alkaline batteries |

Design and specifications are subject to change without notice.





Downloaded from www.Manualslib.com manuals search engine

# Before Calling Service Personnel

Before calling service personnel, please check the following chart for a possible cause of the problem you are experiencing. A minor adjustment on your part may eliminate the problem and restore your TV reception.

| Problem | Checks and Adjustments | Page |
|---|---|---|
| TV will not turn on | ● Make sure the power cord is plugged in, then press POWER button.<br>● Check battery in the Remote. (Maybe batteries are "dead".) | 21<br>9 |
| No picture, no sound | ● Check antenna/cable connections. | |
| No sound, picture OK | ● Maybe sound is muted. Try pressing VOLUME ▲ button.<br>● Try another channel. (Maybe station trouble.)<br>● Make sure the AUDIO CENTER CHANNEL ON/OFF switch is in "OFF" position. | 21 |
| Poor sound, picture OK | ● Try another channel. (Maybe station trouble or local interference from appliance.) | |
| Poor picture, sound OK | ● Check antenna/cable connections.<br>● Try another channel. (Maybe station trouble or local interference.)<br>● Adjust PICTURE menu. | <br><br>24 |
| Poor reception of broadcast channels | ● Try another channel.<br>● Check antenna connections.<br>● If using VCR, check TV/VCR button. | <br><br>10 |
| No UHF, VHF OK | ● Make sure TV/CABLE function is in "TV" mode. | 19 |
| Unable to select a certain channel | ● That channel may be locked out with CH LOCK function, or erased with the ADD/ERASE function. | 32<br>20 |
| Multiple images (ghosts) | ● Try another channel. (Maybe station trouble.)<br>● Use a highly directional outdoor antenna. | |
| Poor color or no color | ● Try another channel. (Maybe station trouble or local interference.)<br>● Adjust TINT and/or COLOR in the PICTURE menu.<br>● If you change the direction of the TV while the TV is activated, the picture may suffer from color shading. If so, turn off the TV and allow it to cool for several hours, then turn on the TV again. The picture should improve. | <br>24 |
| No stereo or SAP sound from a known MTS broadcast | ● Check if MTS function is properly set. | 27 |
| The Remote Control does not operate | ● Check if TV/CABLE/VCR/AUX switch is properly set.<br>● Maybe something is between the Remote and the remote sensor.<br>● Maybe batteries are dead. Try replacing batteries with new ones. Insert them with the correct polarity. | 8, 10<br><br>9 |



Downloaded from www.Manualslib.com manuals search engine

# Limited United States Warranty

Toshiba America Consumer Products, Inc. ("TACP") and Toshiba Hawaii Inc. ("THI") make the following limited warranties. These limited warranties extend to the original consumer purchaser or any person receiving this set as a gift from the original consumer purchaser and to no other purchaser or transferee.

**Limited One (1) Year Warranty**
TACP and THI warrant this product and its parts against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. During this period, TACP and THI will repair a defective product or part, without charge to you. "Authorized TACP/THI service station personnel will come to your home when warranty service is required. Depending on the type of repair required, the service will either be performed in your home or the set will be taken to the authorized TACP/THI service station for repair and returned to your home at no cost to you."

**Limited Two (2) Year Warranty of Picture Tube**
TACP and THI further warrant the picture tube in this product against defects in materials or workmanship for a period of two (2) years after the date of original retail purchase. During this period, TACP and THI will replace a defective picture tube without charge to you, except that if a defective picture tube is replaced after one (1) year from the date of the original retail purchase, you pay labor charges involved in the replacement.

**Rental Units**
The warranty for rental units begins with the first rental ot thirty (30) days from the date of shipment to the rental firm, whichever comes first.

**Commercial Units**
Products sold and used for commercial use have a limited ninety (90) day warranty for all parts, labor and picture tube.

**Owner's Manual and Demographic Card**
You should read this owner's manual thoroughly before operating this product. You should complete and mail the enclosed Demographic card within ten days after you, or the person who has given you this product as a gift, purchased this product. This is one way to enable TACP/THI to provide you with better customer service and improved products. Failure to return the Demographic card will not affect your rights under this warranty.

**Your Responsibility**
The above warranties are subject to the following conditions:
(1) You must retain your bill of sale or provide other proof of purchase.
(2) All warranty servicing of this product must be made by an Authorized TACP/THI Service Station.
**(3) These warranties are effective only if the product is purchased and operated in the U.S.A.or Puerto Rico.**
(4) Labor service charges for set installation, set up, adjustment of customer controls and installation or repair of antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems are your responsibility.
(5) Warranties extend only to defects in materials or workmanship as limited above and do not extend to any product or parts which have been lost or discarded by you or to damage to products or parts caused by misuse, accident, damage caused by Acts of God, such as lightning or fluctuations in electric power, improper installation, improper maintenance or use in violation of instructions furnished by us; or to units which have had the serial number removed, altered, defaced or rendered illegible.

## How to Obtain Warranty Service

If after following all of the operating instructions in this manual and checking the section "BEFORE CALLING SERVICE PERSONNEL", you find that service is needed;

(1) Call the TACP toll free number **1-800-631-3811** after you find a defective product or part to find the nearest TOSHIBA Authorized Service Station.
(2) Please present your bill of sale or other proof to the Authorized Service Station.
"Authorized TACP/THI service station personnel will come to your home when warranty service is required. Depending on the type of repair required, the service will either be performed in your home or the set will be taken to the TACP/THI Authorized service station for repair and returned to your home at no cost to you."

**IN THE CONTINENTAL UNITED STATES**
**Should your unit require service, Call:**

**HAWAII, 327 Kamakee Street, Honolulu, HI 96814**
**(808) 521-5377**

Ⓐ

All warranties implied by state law, including the implied warranties of merchantability and fitness for a particular purpose, are expressly limited to the duration of the limited warranties set forth above. With the exception of any warranties implied by state law as hereby limited, the foregoing warranty is exclusive and in lieu of all other warranties, guarantees, agreements and similar obligations of manufacturer or seller with respect to the repair or replacement of any parts. In no event shall TACP or THI be liable for consequential or incidental damages.

No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever. The time within which action must be commenced to enforce any obligation of TACP or THI arising under this warranty or under any statute, or law of the United States or any state thereof, is hereby limited to 90 days from the date you discover or should have discovered, the defect. This limitation does not apply to implied warranties arising under state law.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state. Some states do not allow limitation on how long an implied warranty lasts, when an action may be brought, or the exclusion or limitation of incidental or consequential damages, so the above provisions may not apply to you.

**ATTENTION CANADIAN CONSUMERS:**

Canadian consumers are requested to complete the special Canadian "Warranty Registration Form" enclosed, and forward this completed form with a copy of bill of sale to TOSHIBA OF CANADA to "Register and Validate" their warranty.

**Products purchased in the U.S.A. and used in Canada are not covered by these warranties.**
**Products purchased in Canada and used in the U.S.A. are not covered by these warranties.**





Downloaded from www.Manualslib.com manuals search engine

## TOSHIBA AMERICA CONSUMER PRODUCTS, INC.

HEAD OFFICE/82 TOTOWA ROAD, WAYNE, NEW JERSEY 07470

FACTORY SERVICE CENTERS/NORTHEAST: 82 TOTOWA ROAD, WAYNE, NEW JERSEY 07470
MIDWEST: 1010 JOHNSON DRIVE, BUFFALO GROVE, ILLINOIS 60089-6900
WEST: 5490 E. FRANCIS ST., ONTARIO, CA 91761
SOUTHWEST: 1421 CHAMPION DRIVE, SUITE 304 CARROLLTON, TEXAS 75006
SOUTHEAST: 6115 JIMMY CARTER BLVD., SUITE C2, NORCROSS, GA 30071-4607

## TOSHIBA HAWAII, INC.

HEAD OFFICE/327 KAMAKEE STREET, HONOLULU, HAWAII 96814, U.S.A.

## TOSHIBA OF CANADA LTD.

HEAD OFFICE/191 McNABB STREET, MARKHAM, ONTARIO, L3R 8H2, CANADA TEL: (905) 470-5400

SERVICE CENTERS/TORONTO: 191 McNABB STREET, MARKHAM, ONTARIO, L3R 8H2, CANADA TEL: (905) 470-5400
MONTREAL: 1643, NORTH SERVICE RD., TRANS-CANADA HIGHWAY, DORVAL QUEBEC, H9P 1J1, CANADA TEL: (514) 856-4100
VANCOUVER: 22171 FRASERWOOD WAY, RICHMOND, B.C.,V6W 1J5 TEL: (604) 303-2500

MANUFACTURED BY
**TOSHIBA AMERICA CONSUMER PRODUCTS, INC.**

PRINTED IN USA
(97-09)B

**TOSHIBA**

23563109

Downloaded from www.Manualslib.com manuals search engine